

DEPARTMENT OF THE NAVY JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1986



SUBMITTED TO CONGRESS FEBRUARY 1985

OPERATION & MAINTENANCE, NAVY

BOOK 2 OF 3

>BUDGET ACTIVITY 7: ->7- CENTRAL SUPPLY AND MAINTENANCE

85 7 01 095

Department of the Navy Operation & Maintenance, Navy

Justification of Estimates for Fiscal Year 1986

Introductory Statement (Dollars in Thousands)

	FY 1984 Actual	FY 1985 Estimate	FY 1986 Request
Total Direct Program	\$21,986,941	\$25,334,741	\$25,797,700
Transferred from Other Accounts	-40,360	-	-
Transferred to Other Accounts	-	12,300	•
Unobilgated Balance Lapsing	303,047	-	-
Supplemental Appropriations Request	-	-230,800	-
Appropriation	\$22,249,628	\$25,116,241	\$25,797,700

The FY 1986 request for the Operation and Maintenance, Navy appropriation is \$25,797.7 million. This appropriation finances the day-to-day costs of operating naval forces, including fuel, supplies, and maintenance costs of ships, aircraft (including Marine aircraft), and other weapons systems, as well as the support establishment ashore for naval forces. The FY 1986 request represents an increase over the current estimate for FY 1985 of \$463 million. Major changes between the years include transfers related to proposed revisions to the Department's expense/investment criteria (+\$210.7 million) and the Administration's proposed 5 percent decrease in civilian pay rates (-\$116.3 million). Other major changes between FY 1985 and FY 1986 are discussed in the budget activity summaries below:

This book includes:

Strategic Forces. The Strategic Forces budget activity provides for the financial requirements for the Navy's Fleet Ballistic Missile Force. This range of activities covers the operating costs of the nuclear submarines, supporting submarine tenders, launch area support ships and other craft, their maintenance and base operation support, as well as weapon systems and missile overhaul, repair, and maintenance. The Naval Space Command is also included in this activity.

For Budget Activity 1, the Ship Maintenance and Modernization program decreases in FY 1986, reflecting the impact of one fewer FBM submarine and one fewer support ship in the overhaul program. The Trident program increases, reflecting an additional number of operational submarines and the Kings Bay development.

SUMMARY OF REQUIREMENTS BY ACTIVITY GROUP

Book-BA-Page	2-7-005 2-7-016 2-7-018	2-7-020	2-7-031 2-7-038 2-7-042 2-7-047 2-7-049	2-7-056 2-7-074 2-7-082 2-7-086 2-7-088	2-7-090 2-7-099 2-7-120 2-7-130 2-7-143 2-7-181
O&M.N Funding	30,787 30,629 96 62	2,379,009 1,247,479 103,495	269, 598 30, 496 48, 291 22, 346 273, 658	138,757 99,402 130,971 6,017 8,499	1,766,697 82,414 307,322 208,520 32,392 173,013 461,392 236,309
FY 1986	532 0 0	5,373 0	0 0 1,452 589 3,332	00 000	10,347 275 5,579 787 3,545 106
Personnel	75037	0	223 33 515	000	, 0 560 44 708 75 99
SS OEM, N Funding	27,837 27,758 20 59	2,900,354 1,866,340 113,928	238,727 22,991 44,132 23,261 274,749	106,067 87,305 108,441 5,917 8,496	68,354 203,239 209,251 33,788 37,331 238,291
FY 1985	0 0 342	5,182 0	0 1,269 589 3,324	00 000	10,152 0 261 5,444 782 3,504 106
Personne M1	8 50 7	781	0 225 39 515	000	1,459 0 573 721 75 75
CEM, N Funding	19,901 19,825 19,825 57	2,848,506 1,950,190 74,267	199,329 26,594 37,907 24,378 215,700	109,965 101,771 95,805 5,370 7,230	1,373,525 67,774 158,120 202,060 39,428 173,951 314,398 195,159
FY 1984	22 22 22 0 0	4,905 0	0 0 1,109 595 3,201	00 000	200 5,248 3,603 13
[5]	75 38 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14	e 706 0	0 0 193 37 476	00 000	1,330 0 513 45 678 70 24
	Chief of Naval Operations Field Operations Maintenance of Real Property Base Operations	Naval Air Systems Command Aircraft Rework & Waintenance Air-Launched Weapons Rework and Maintenance	Other Aviation Systems Maintenance Maintenance Support Procurement Operations Command & Administration Field Operations	Activities Activities Engineering Services Contractor Technical and Maintenance Support Maintenance of Real Property Base Operations	Naval Sea Systems Command Ship-Launched Weapons Rework and Maintenance Other Ship Systems Maint Procurement Operations Command & Administration Field Operations Logistic Support Activities Engineering Services

SUMMARY OF REQUIREMENTS BY ACTIVITY GROUP

		FY 1984	_		FY 1985	S		FY 1986	10	
	Person		O&M, N Funding	Personne	E/S	O&M, N Funding	Personne		O&M.N Funding	Book-BA-Page
Maintenance Support	0	54	94,344	0	52	93,502	0	22	137,080	2-7-217
Maintenance Support Intermediate Maintenance Maintenance of Real Property	000	000	45,600 11,313	000	000	48,548 15,323 14,243	000	000	44,980 14,842 12,297	2-7-238 2-7-254 2-7-259
Base Operations Naval Electronic Systems Command	137	2,065	58,567	0 [6]	2,071	56,860 316,508	181	2,092	56, 136 361, 934	2-7-261
Electronic Systems Rework and Maintenance Procurement Operations	0 8 F	0 825 157	67,289 36,095 7,827	. O & Ł	0 841 354	77,248 36,069	37.	0 861	84,766 36,292	
Field Operations Logistic Support Activities Engineering Services	2800		48,874 26,256 54,813	2000	1,076	47,788 32,702 70,234	130	1,077	50,859 46,276 84,446	2-7-283 2-7-286 2-7-296 2-7-299
Contractor lecunical and Maintenance Support Maintenance Support Maintenance of Real Property Base Operations	0000	0000	7,045 22,962 2,208 5,948	0000	0000	5,428 33,329 1,193 6,411	0000	0000	6,552 39,265 1,100 6,467	2-7-330 2-7-333 2-7-341 2-7-343
Naval Supply Systems Command 2,304 Supply Operations 29T Inventory Control Operations 262 Procurement Operations 79 Field Operations 35 Servicewide Transportation 0 Retail Sales Operations 1,528 Maintenance of Real Property 0	2,304 291 262 105 79 35 35 0	20,273 7,743 5,878 5,878 383 226 2,519 2,519 2,728	1,211,415 222,464 221,176 52,051 29,766 6,532 442,231 79,231 22,552 135,322	2065 281 281 113 80 11 0 11,318	21,285 8,439 5,891 357 271 2,816 2,816 2,816 2,752	1,236,879 246,835 724,287 72,426 31,756 7,438 406,233 82,234 25,529	2,053 288 288 114 80 11,275 4	21,109 8,022 5,881 358 355 212 212 3,057 2,754	1,283,853 265,661 245,873 89,612 33,321 7,518 394,760 87,662 24,237 135,209	2-7-345 2-7-351 2-7-358 2-7-362 2-7-368 2-7-368 2-7-388

SUMMARY OF REQUIREMENTS BY ACTIVITY GROUP

FY 1986 Personnel E/S 08M,N M11 Civ Funding Book-BA-Page	1,202 4,528 413,810 52 369 17,663 2-7-390 617 1,253 97,486 2-7-392 0 0 100,295 2-7-397 61 1,522 109,984 2-7-407 472 1,384 88,382 2-7-410	438 1,019 -209,794 2-7-416 324 585 47,487 2-7-418 0 0 2,377 2-7-428 0 0 -280,300 2-7-428	23 0 512,296 0 0 160,242 2-7-430 0 0 53,214 2-7-434 23 0 298,840 2-7-438	64 0 0 0 6,263 44,493 6,538,592
SS O&M,N P	344,491 1 77,869 58,194 62,813 127,711	-488,097 20,017 38,081 2,563 -549,200	478,448 150,772 52,362 275,314	<u>0</u> 6.303.178
FY 1985 ersonnel E/S M11 C1V	52 52 587 1,257 0 0 61 1,446 461 1,355	413 996 116 432 296 564 0 0 1	2000 0000	69 <u>0</u> 6,200 44,138
OSM, N P	282,515 17,512 54,650 44,027 93,798 72,528	-487,152 19,217 35,937 2,261 -545,000	460, 402 158,941 46,399 255,062	<u>0</u> 5,988,429 6
FY 1984 nnel E/S C1V	4,430 3,44 1,248 1,471 1,367	941 416 525 0 0	0000	0 42.541
Person	1,077 469 469 0 0 66 490	364 113 251 0	20°2	6.042
	Naval Facilities Engineering Command Command and Administration Field Operations Logistic Support Activities Maintenance of Real Property Base Operations	Chief of Naval Material Headquarters Command & Administration Field Operations Industrial Preparedness Industrial & Stock Fund Spt Base Operations	Anti-Submarine Warfare Project Office ASW Maintenance ASW Maintenance Support ASW Support	CINCPACFLT Base Operations TOTAL BA 7

Department of the Navy Operation and Maintenance, Navy

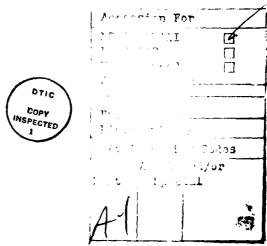
Budget Activity: 7 - Central Supply and Maintenance

I. <u>Description of Operations Financed</u>.

This budget activity provides centrally managed maintenance, supply, technical, and other logistic and acquisition support for the Navy's operating forces and shore establishment. This support is provided by five Naval Systems Commands, the Navy Regional Data Automation Centers (NARDACs) and the Aviation Intermediate Maintenance Support Office (AIMSO). The Naval Systems Commands operate under the command of the Chief of Naval Material while the NARDACs and AIMSO operate under the direct command of the Chief of Naval Operations.

The FY 1986 budget for Central Supply and Maintenance reflects increases in depot level maintenance to continue increases in readiness and to support the growing population of major weapons systems and equipment. Also included is full year implementation of the transition of funding responsibility for the rework of aviation depot level repairables to the Navy Stock Fund. As a result of the initiatives identified by the President's Private Sector Survey on Cost Central task force, the Aircraft Rework program reflects applicable cost avoidances and additional personnel have been budgeted to improve physical inventory procedures and to support the Buy Our Spares Smart program. Funding has also been provided for preservation and material rework of six Inactive Fleet ships, inactivation of three SSNs, increased support for AEGIS ships coming on-line, support for the opening of one new commissary and annualization of support costs for three commissaries opened in FY 1985, purchase of chemical, biological and radiological equipment, technical support for shipboard non-tactical ADP equipment and improved physical security at Navy activities. Of the several interappropriation transfers, most noted are efforts related to revision of expense/investment criteria, funding to support the Environmental Restoration program and engineering/technical services to support the undersea surveillance program.

Please refer to individual activity groups for detailed explanations of increases and decreases.



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Budget Activity: 7 - Central Supply and Maintenance (cont'd)

II. Financial Summary (Dollars in Thousands).

A. <u>Sub-Activity Group Breakout</u>.

			FY 1985		FY 1986	
	FY 1984	Budget <u>Request</u>	Appro- priation	Current <u>Estimate</u>	Budget <u>Request</u>	<u>Change</u>
Chief of Naval Operations Naval Air Systems	19901	31116	27875	27837	30787	+2950
Command	2848506	2971844	2901874	2900354	2379009	-521345
Naval Sea Systems Command	1373525	1520341	1477570	1486758	1766697	279939
Naval Electronic Systems Command	279317	345753	323949	316508	361934	+45426
Naval Supply Systems Command Naval Facilities	1211415	1255859	1225563	1236879	1283853	+46974
Engineering Command Hdqtrs, Naval	282515	396100	343429	344491	413810	+69319
Material Command	57848	61911	60097	61103	70506	+9403
Industrial and Stock Fund Support Anti-Submarine	-545000	-102931	-689631	-549200	-280300 ·	268900
Warfare Project Office	460402	<u>477907</u>	469500	478448	<u>512296</u>	+33848
Total, Budget Activity	5988429	6957900	6140226	6303178	6538592	235414
B. <u>Reconciliation</u>	of Increa	ses and De	creases			
1. FY 1985 President'	s Budget				6,9	57,900
2. Congressional Adju	stments				-81	17,674
A. ADP Leasing B. Audiovisual As C. Civilian Overt D. Contract Suppo E. Debt Collectio F. Depot Maintena G. Engineering Su H. Environmental	ime Costs rt Service: n nce pport Serv) ces		(-21,984) (-2,284) (-9,320) (-20,252) (-3,393) (-20,000) (-9,000) (-5,334)		

Budget Activity: 7 - Central Supply and Maintenance (cont'd)

B. Reconcilitation of Increases and Decreases

	_			
	I.	Environmental Restoration	(-40,200)	
	J.	Excess Material	(-10,271)	
	K.	FMS Pricing	(-8,065)	
	L.	Foreign Currency Rates	(-7,228)	
	M.	Foreign National Pay	(-359)	
	N.	Fuel Rebate	(-352,700)	
	0.	Improper Use of O&M	(-5,675)	
	Ρ.	Logistic Support Activities	(-52,000)	
	Q.	Logistic Field Operations	(-25,000)	
	R.	MSC Transportation	(-25,000)	
	<u>s</u> .	NSF Pricing	(-1,685)	
	T.	Obligation Performance	(-2,506)	
	U.	Other Base Operations	(-6,000)	
	٧.	P-3A Mods	(+4,900)	
	W.	Payroll & Timekeeping	(-8,195)	
	X.	Prompt Payment Practices	(-2,086)	
		Public Works Operations	(-10,000)	
	Ζ.	SURTASS/TAGOS Operations	(-2,583)	
		Shipyard Work Measurement	(-10,000)	
		Stock Fund Pricing	(-150,000)	
		Telephone Usage	(-1,765)	
		Travel	(-4,689)	
	AŁ.	Vehicle Utilization	(-5,000)	
3.	FY	1985 Appropriation		6,140,226
4.	Pay	Supplemental		182,372
	Α.	Classified	(120,815)	
	В.	Wage Board	(60,577)	
	C.	Foreign National Direct Hire	` (980)	
		•	•	•
5.	Oth	er Increased		239,149
	A.	Programmatic Increases	(230,086)	
	В.	Pricing Adjustments	(9,063)	
6.	Oth	er Decreases		-258,569
	Α.	Functional Transfers	(-714)	
	В.	Programmatic Decreases	(~256,367)	
	Č.	Pricing Adjustments	(-1,488)	
			, 1,130,	
7.	FY	1985 Current Estimate		6,303,178

Budget Activity: 7 - Central Supply and Maintenance (cont'd)

B. Reconciliation of Increases and Decreases (cont'd)

8.	Pri	cing Adjustments		238,071
	A.	Civilian Personnel Compensation (Direct) 1) US Direct Hire Pay Adjustment 2) Foreign National Direct Hire Pay	(-37,375) -47,672	
		Adjustment	146	
		3) Other Direct Pricing Adjustments	10,151	
	В.		(497,031)	
		l) Fuel	351,529	
		2) Non-Fuel	145,502	
	C.	Industrial Fund Rates	(-322,651)	
	٥.	FN Indirect	(207)	
	£	Other Pricing Adjustments	(100,859)	
9.	Fur	nctional Program Transfers		-377,324
	A.	Transfers In	(232,889)	
		1) Intra-Appropriation	32,856	
		2) Inter-Appropriation	200,033	
	В.		(-610.213)	
		1) Intra-Appropriation	-32,240	
		2) Inter-Appropriation	-577,973	
10.	Pro	ogram Increases		728,638
	A.	Annualization of FY 1985 Increases	(11,842)	
	В.	Other Program Growth in FY 1986	(716,796)	
11.	Pro	ogram Decreases		-353,971
	Α.	Annualization of FY 1985 Decreases	(-130)	
		One-Time FY 1985 Costs	(-16,525)	
	C.	Other Program Decreases in FY 1986	(-337,316)	
12.	FY	1986 President's Budget Request		6,538,592

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group:

Field Operations

Budget Activity: 7 Central Supply and Maintenance

Claimant:

Chief of Naval Operations (CNO) (Op-09BF)

I. Description of Operations Financed.

The Aviation Intermediate Maintenance Support Office (ADMSO) accomplishes numerous technical projects, broad and specific, which address various problems that degrade intermediate level (I-level) maintenance. Projects address specific intermediate level logistic element and system problems in order to develop improved management tools and techniques for better utilization of intermediate level resources in support of assigned workload. AIMSO advises CNO and Commandant of the Marine Corps (CMC) on various problems, solutions, and alternative management methods to improve logistic system support for the Intermediate Maintenance Activities (IMA's).

Specific project and improvement activities are categorized into eight broad areas that support the specific mission of AIMSO.

- a. Mobilization. Efforts include the development and maintenance of I-level mobilization plans, establishment of a specific mobilization role for AIMSO, and the assurance that all current and future efforts consider the needs of mobilization.
- b. Acquisition. AIMSO's involvement in acquisition is to enhance the acquisition process of I-level needs, represent the views of the I-level during the process, and on a selective basis, actual participation in specific acquisition programs.
- c. Information. The AIMSO effort within this category is to act as the I-level "clearinghouse" and "crossfeeder." This involves being the central focal point, reporting all efforts accomplished having some application to aviation I-level, and passing good information and ideas to and between all 87 Intermediate Maintenance Activities (IMA's) worldwide.
- d. I-level Spokesman. AIMSO represents the I-level of maintenance in the headquarters community and acts as the recognized expert on all I-level matters.
- e. Operational Support. The most immediate improvement in I-level maintenance comes from AIMSO's ability to identify fleet problems, develop solutions to those problems, and implement the resolution or turnover to another responsible activity for institutionalization. The majority of efforts within this category have as their objective a specific improvement in capability, management practice, use of resources, or specific training.

- f. Analysis. To support the requirements of AIMSO, OPNAV, and the Type Commanders (TYCOM's), the capability to properly analyze and evaluate I-level operation is absolutely mandatory. To this end, AIMSO has instituted several efforts which have as their primary objective establishment of this capability.
- g. Long-Range Planning. As one of the key requirements of improvement in I-level maintenance, long-range planning focused at the I-level must be accomplished. So this can be done, efforts to define the role of AIMSO in the planning process are being pursued. The Objective of these efforts is to influence long-range hardware acquisition and operational plans to consider the unique needs of the I-level.
- h. NAMP. In addition to efforts which support unique I-level requirements, AIMSO has been assigned responsibility for OPNAV Instruction 4790.2C, the Naval Aviation Maintenance Program (NAMP) Manual, a 3,000 page document. This responsibility includes preparing, negotiating, and constructing all changes of the document; interpreting the OPNAV policy contained in the document; and distributing the documents to the fleet. In addition, major new programs entering the fleet are evaluated and included in the document.

The Naval Data Automation Command (NAVDAC) coordinates the development, testing, support, standardization and acquisition of major Automated Information Systems (AIS's), ADP equipment (ADPE), data communications equipment and services, and information systems policies and standards. NAVDAC provides this Navy-wide support through specific task assignments to the Navy Regional Data Automation Centers (NARDAC's) and Navy Data Automation Facilities (NAVDAF's) for the required programming, computer processing and technical support. These tasks fall into four major functional areas as follows: (1) Systems Software, Data Communications and Standards program which support systems software acquisition, maintenance, installation, and problem resolution for DoN non-tactical information systems and provide technical services ranging from development and maintenance of regional data processing networks to support Navy-wide information systems, standards devalopment and performance evaluation; (2) Computer Program Development programs manage the development and implementation of policies and procedures related to applications software engineering and quality assurance, provide technical guidance and assistance in applications and supporting technology areas to all Navy ADP activities, consolidate functionally duplicative systems, and install newly consolidated systems at multiple sites; (3) Computer System Operations programs provide technical direction of computer systems operation Navy-wide, including development of policies, plans, standards and procedures governing establishment, growth and manage int of DoN non-tactical data processing installations, and design, development, implementation and maintenance of computer hardware and its related operational systems for all echelons of the Navy; and (4) Plans, Resources and Support programs develop DoN information systems plans, translate DoN approved information systems concepts and objectives into timephased resource requirements and formulate major policy on all aspects of Navy information systems management.

Within the four major functional areas are 14 programs that cross these funtional areas. They are:

- a. Naval Bases/Stations Provides ADP support to 110 bases and stations in 16 fuctional areas through development of functionally standard, centrally designed and maintained multi-site/multi-year systems.
- b. Minicomputer Technical Support Provides centralized support for 200 large-scale, multi-user minicomputer systems throughout the Navy.
- c. <u>Microcomputer Technical Support</u> Provides continued technical support to activities purchasing microcomputers from the joint Navy/Air Force contract. Supports recompetition of joint contracts and ensures consistent and effective management of microcomputing resources.
- d. <u>ADP Technical Standards</u> Serves as the Department of the Navy and Information Processing Standards for Computers Program (IPSC) Coordinator. Supports development, coordination, publication and maintenance of standards for Navy and research and acquisition of automated tools for standards development.
- e. IBM System Software Provides technical support services for installation and maintenance of centrally required standard system software and telecommunications software for Navy CONUS and EXCONUS Level II and III activities and NAVDAF's
- f. Univac/Burroughs Software Optimization Detects and eliminates inefficiencies in existing information systems; identifies tools and establishes concepts, guidelines and procedures to be used by system developers to improve system reliability and maintainability. Promotes and facilitates end users support by Navy information system development activities. Identifies, evaluates and promotes use of information system design and implementation tools.
- g. Univac/Burroughs System Software Support Provides technical support for standard Univac and Burroughs system software located within Navy and Marine Corps activities.
- h. Don Hardware Acquisition and Management This program provides for hardware umbrella contracts for ADP equipment used to support users Navy-wide replacement of obsolete equipment, security reviews and risk assessments.
- i. Type Commanders Headquarters Automated Information System (THAIS) Provides 7 Type Commanders with a standardized, integrated automated information system to manage logistics, operations, maintenance and administration of ships and aircraft that must remain in operational readiness.
- j. Navy Network Interface Program (NNIP) Provides definition of an architecture for Navy data networks and provides the framework for consolidation, technological enhancements, strategic planning and improved support. Includes contracts for Navy use for hardware, software and technical services.
- k. Application and Software Resource Management Provides functional sponsors and managers a framework to identify duplications, incompatibilities and omissions in Automated Information System (AIS) support as well as providing management tools to encourage sharing of existing application software systems.

- 1. Financial Management The Navy ADP Budget System provides automated support to Commander, Naval Data Automation Command (COMNAVDAC) in compilation, review/revision, preparation, and submission of the Navy ADP Budget. The "Financial Management Information System" (FMIS) is an automated system that provides NAVDAC management the capability to expeditiously access financial information from its activities, while the information is still relevant. Additionally, FMIS provides a standard method of measuring activity performance and acts as a communication network between the NARDAC's and NAVDAC for the exchange of financial data.
- m. ADP Technology Transfer Within the ADP Technology programs there are several different initiatives. A database machine prototype is being evaluated for potential use throughout the Navy by users and developers. An office automation prototype will allow evaluation and increased understanding in the area of office automation prior to administering policy and standards to the rest of Navy. Investigation of new software languages for developers as well as unsophisticated end users are being pursued. Workbench technology provides a combination of hardware and software to expedite development of application systems. Through evaluation of UNIX software expertise will be gained to provide better guidance and support for small system users in Navy.
- n. Information System Career Management Several approaches are being taken to enhance the skills of ADP staffs. Once training requirements common to many activities are identified courses are developed for classroom or computer aided instruction as appropriate.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985		FY 1986	•
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Aircraft Intermediate Maintenance Support						
Office Naval Data Automation	2,459	6,469	5 ,845	5 ,807	5,308	-499
Command	17,366	24,568	21,951	21,951	25,321	+3,370
Total Field Operations	19,825	31,037	27,796	27,758	30,629	+2,871

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate \$27,758

2. Pricing Adjustments

~8 19

- A. Civilian Personnel Compensation (Direct) (-39)
 1) U.S. Direct Hire Pay Adjustment -32
 - 1) U.S. Direct Hire Pay Adjustment -32
 2) Other Direct Pricing Adjustments -7
- B. Industrial Fund Rates (-988)
- c. Other Pricing Adjustments (208)
- 3. Functional Program Transfers

4. Program Increases \$6,896

- A. Annualization of FY 1985 Increases (21)
 - 1) Increase for annualization 21
 associated with the four
 additional AIMSO clerical
 positions in FY 1985 (+1 work
 year).
- B. Other Program Growth in FY 1986 (6,875)
 - 5,826 1) Increase reflects continuation of NAVDAC's efforts to address the standardization of Navy wide automated systems in the following program areas: Minicomputer Technical Support increased support of large-scale, multi-user minicomputer systems procured via the umbrella contract.(\$744); Microcomputer Technical Support - To continue support of joint Navy/Air Force microcomputer contract including recompetition of existing contracts plus additional acquisitions of portable, deployable, multiple user systems. (\$567); IMB Software Support - To continue system software and telecommunications software support for current CONUS and EXCONUS Level II and III activities plus an additional

B. Reconciliation of Increases and Decreases. (cont'd)

B. Other Program Growth in FY 1986 (cont'd)

10 sites. (\$972); Univac/Burroughs Software Optimization - Expansion of quality assurance program to include procedure development and prototype development, promote end user support efforts by development activities, identify and evaluate use of information systems design and implementation tools. (\$380); Type Commanders Headquarters Automated Information System (THAIS) - To provide increased developmental costs projected for completion of full operating capability. (\$152); Navy Network Interface Program (NNIP) - To support data communications interface equipment and local area network equipment, design and prototype local area network plans for major bases/stations, ensure security through access control/security devices, and continue support for interoperability with Shipboard Non-tactical ADP Program (SNAP). (\$1,522); Information Systems Career Management - Identify courses required by a number of activities for ADP staffs and assign responsibility for course development and presentation to activities according to their expertise and capabilities. (\$87); DON Hardware acquisition and Management - support for the NAVDAC mission of independently testing and evaluating major AIS acquisitions will increase significantly. In particular, the NISTARS evaluation program will increase from one activity to three.

B. Reconciliation of Increases and Decreases. (cont'd)

B. Other Program Growth in FY 1986 (cont'd)

Additional AISs will be undertaken. NAVDAC is undertaking significantly improved Navy-wide information resources inventory procedures which will include many additional activities and types of hardware. ADPE inventory comprehensiveness and accuracy are receiving heightened emphasis by SECNAV. OSD and Congress. NAVDAC is undertaking a new program to formulate and execute a new Navy-wide Fleet Word Processing Equipment acquisition. (\$654); and increase to Basis and Stations (\$281), ADP Technical Standards (\$136), Univac/Burroughs System Software Support (\$201), Application Software Resource Management (\$116), Financial Management (\$4); and ADP Technology Transfer (\$10).

2) Increase reflects the addition of and/or expansion of AIMSO projects to improve intermediate-level performance. Increase will be in the following areas:
Mobilization (\$168);
Information Exchange (\$130);
I-level Spokesman (\$27);
Analysis (\$654); and Long-Range Planning (\$70).

1,049

- B. Reconciliation of Increases and Decreases.
 - B. Other Program Growth in FY 1986 (cont'd)
 - 5. Program Decreases

-\$3,206

A. Other Program Decreases in FY 1986 (-3,206)

1) Decreases associated with the -1,468following NAVDAC program areas: Naval Bases/Stations - Major portion of development for prototype sites completed. Continued developmental support as well as maintenance and exportation of completed modules. (\$747). ADP Standards - Completion of major development effort on standards that required updating and reprinting. (\$277); Univac/Burroughs Technical Support - Decrease due to partial elimination of local changes to software. Burroughs utility library will be converted in FY 1985 and continued support is for maintenance only. (\$94); Financial Management - Development effort completed. (\$79); ADP Technology -Evaluation of several prototypes completed and costs transferred to customers. (\$81): DoN Hardware Management - Phase IIA hardware procurements as well as a significant number of one-time projects will be completed. (\$190).

- B. Reconciliation of Increases and Decreases. (cont'd)
 - 5. Program Decreases (cont'd)
 - A. Other Program Decreases in FY 1986 (cont'd)
 - 2) Decrease is a result of -1,738
 the scaling down, delay or
 completion of AIMSO projects in
 the following areas:
 Acquisition (\$183); NAMP (\$60);
 Operational Support (\$1,495)
 - 6. FY 1986 President's Budget Request

\$30,629

III. Performance Criteria	TTT.	Per formance	Criteria.
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		FY :	L984	PY 19	385	kA T	
A.	Naval Data Automation	W/Y	\$000	W/Y	\$000	W/Y	\$000
	Command		\$17,366		\$21,951		\$25,321
	Naval Bases/Stations	14	1,102	33	2,137	20	1,592
	Minicomputer Technical Support	8	558	9	510	24	1,195
	Microcomputer Technical Support	5	292	6	269	16	796
	ADP Technical Standards	14	865	27	1,395	23	1,195
	IMB System Software	15	794	16	7 12	35	1,665
	Univac/Burroughs Software Optimization	5	471	13	1,083	15	1,354
	Univac/Burroughs System Software Support	38	2,070	33	1,565	31	1,593
	DoN Hardware Acquisition and Management	28	2,496	53	4,134	50	4,381
	Type Commanders Hdqtrs Automated Information System (THAIS)	33	4,925	35	5,182	36	5 ,334
	Navy Network Interface Program (NNIP)	2	3,089	3	3,692	4	4,967
	Application Software Resource Management	1	140	4	302	4	378
	Financial Management	3	245	2	150	0	75
	ADP Technology Transfer	1	305	4	698	3	597
	Information System Career Management	0	14	1	122	2	199

B. Aircraft Intermediate

Maintenance Support Office	FY 1	984		1985	•	1986
	No Projs	\$000	No Projs	\$000	No Projs	\$000
		\$2,459		\$5,807		\$5,308
M-1-11-1-1-1-1	2	30	3	187	3	363
Mobilization	ī	52	2	175	-	-
Acquisition	•	50	4	313	5	457
Information	2	30	3	34	3	62
I-level Spokesman	1	1	•		12	675
Operational Support	9	430	18	2,084		
	4	414	6	844	9	1,534
Analysis	•		1	146	1	222
Long-Range Planning	_	101	3	562	2	526
NAMP	2	181	3		-	1,469
Fixed Operating Expenses		1,301		1,462		1,407

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military	<u>24</u>	<u>25</u>	23
	Officer Enlisted	5 19	7 18	5 18
В.	Civilian	<u>22</u>	25	<u>25</u>
	USDH	22	25	25

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Maintenance of Real Property

Budget Activity:

7 Central Supply & Maintenance

Claimant:

Chief of Naval Operations (CNO) (OP-09BF)

I. Description of Operations Financed.

This program provides maintenance, and minor construction of buildings, structures, grounds, and utility systems required for Aircraft Intermediate Maintenance Support Office to perform its mission.

The major elements of this program are:

- a. Facilities Maintenance Finances scheduled, day-to-day recurring maintenance, and emergency service work needed to preserve facilities.
- b. Minor Construction Finances the erection, installation or assembly of real property facilities; the addition, extension alteration, conversion or replacement of existing real property facilities; the relocation of real property facilities; and the installation of equipment which is made part of a facility.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985	FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Facilities Maintenance Minor Construction	19 -	20 -	20 -	20 -	21 75	+1 +75
Total, Maintenance of Real Property	19	20	20	20	96	+76

Activity Group: Maintenance of Real Property (cont'd)

	в.	Rec	onciliation of Increases and Decreases.			
		1.	FY 1985 Current Estimate			\$20
		2.	Pricing Adjustments			1
			A. Industrial Fund Rates		(1)	
		3.	Functional Program Transfers			
		4.	Program Increases			7 5
			A. Other Program Growth in FY 1986		(75)	
			1) Funding for partial renovation of the 2nd deck of the AIMSO Headquarters building (#106) located at Naval Air Station (NAS) Patuxent River, Maryland. Significant rehabilitation is necessary, as existing spaces are of 1943 vintage, without proper lighting, insulation, etc.		75	
		5.	Program Decreases			
		6.	FY 1986 President's Budget Request			\$96
III. Performance Criteria and Evaluation. FY 1984 FY 1985 FY 198 Maintenance of Real Property					FY 1986	
Backlog, Maint/Repair (\$000) 0 0					0	
Total	Bui!	ldin	gs (KSF)	10	10	10

Personnel Summary (End Strength).
No military or civilian personnel assigned to this activity group.

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group:

Base Operations Support

Budget Activity:

7 Central Supply and Maintenance

Claimant:

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Chief of Naval Operations (CNO) (OP-09 BF)

I. Description of Operations Financed.

This program provides the base support services required by the Aircraft Intermediate Maintenance Support Office (AIMSO).

The major elements of this program are:

Base Communications. Includes costs for administrative telephones, telecommunications centers, industrial security networks, and paging networks.

Utility Operations. Includes operating expenses for purchased electricity, electricity generating plants, purchased steam and hot water, heat plants, utility distribution systems, waste systems, air conditioning and refrigeration plants.

Other Engineering Support - Engineering services, custodial services, refuse/garbage collection and disposal, snow removal, and fire protection and firefighting.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985	FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Base Communications	17	18	18	18	19	+1
Operation of Utilities	27	28	28	28	29	+1
Other Engineering Support	13	13	13	13	14	+1
-						********
Total, Base Operations Support	57	59	59	59	62	+3

Activity Group: Base Operations Support (Cont'd)

В.	Reconciliation of Increases and Dec	reases.		
	1. FY 1985 Current Estimate			\$59
	 Pricing Adjustments A. Industrial Fund Rates B. Other Pricing Adjustments 		(1) (2)	3
	3. Functional Program Transfers			
	4. Program Increases			
	5. Program Decreases			
	6. FY 1986 President's Budget Requ	nest		\$ 62
III. Per	formance Criteria and Evaluation.	PY 1984	FY 1985	FY 1986
Base Oper	ations (\$000)	57	59	61
Operating	of Utilities (\$000)	27	28	29
Total E	nergy Consumed (MBTU's)	340	340	340
Total n	on-energy consumed (K Gal)	1	1	1
Base Comm	unications (\$000)	17	18	18
Number	of Instruments	55	55	55
Number	of Mainlines	5	5	5
Ownership	Operations (\$000)	13	13	14
Other E	ngineering Sup (\$000)	13	13	14
IV. Pers	onnel Summary (End Strength).			
		FY 1984	FY 1985	FY 1986
Α.	Mil1tary	14	<u>13</u>	14
	Officer Enlisted	3 11	2 11	3 11

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Aircraft Rework and Maintenance

Budget Activity: 7 Central Supply Activities

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed

- A. Airframe Rework This program provides for the inspection, repair reconfiguration and conversion of fleet aircraft. It primarily addresses maintenance on the aircraft major structure and airframe systems. The objective of the program is to maintain a safe, flyable platform over the life of the weapon system by periodic return to the depot for required maintenance. Under the Standard Depot Level Maintenance (SDLM) program, maintenance is performed only to the level that is technically justified and cost effective. Operational Service Period (OSP) initiatives related to increasing OSPs on selected aircraft are reflected in this submission, as are Maintenance Requirements Review Board manhour reductions. This submission also reflects the assignment of airframe reworks to the least-cost source of repair. The Aircraft Service Period Adjustment (ASPA) program adjusts individual aircraft period end dates for selected aircraft when material condition warrants. Under ASPA guidelines, only aircraft that upon inspection cannot safely be extended for another 12-month tour are inducted in the depot for SDLM. Expected savings from these initiatives are included in the requirements forwarded by this submission and are consistent with the recommendations made by the President's Private Sector Survey on Cost Control. Airframe requirements reflect the transition of concurrent structural component rework from the component program to airframes for FY 1984, and concurrent avionics component rework from components to airframes in FY 1985.
- B. Engine Rework The engine rework program accomplishes the repair, modification and overhaul of aircraft engines, gearboxes and torque meters installed in Navy aircraft. The program objective is to return depot-repairable engines to ready-for-issue status to support fleet engine pool requiremer's. Under the Engine Analytical Maintenance Program (EAMP), engines are repaired at the lowest echelon of maintenance. Only engines that are beyond the repair capability of intermediate maintenance activities are scheduled for induction in the depots. Depot-level maintenance may also be performed concurrent with aircraft SDLM if such maintenance is operationally necessary and cost effective. Engine SDLM reworks are directly related to aircraft rework, and a variance in the aircraft rework schedule will be accompanied by a commensurate variance to the engine rework schedule. Engine field team assistance is included in this budget submission to provide on site depot level maintenance on an as needed basis.
- C. <u>Component Rework</u> The purpose of the component rework program is to accomplish depot-level repair of aeronautical components that are beyond the repair capability of intermediate maintenance activities. The major portion of the component repair program, "2R", is the repair of unserviceable items which are included in the inventory management of the Navy's supply system. This includes avionic, navigational, instrument, hydraulic, mechanical, airframe and engine components, and applicable support equipment. Also included in this program is contractor repair of aeronautical components for aircraft systems and equipment which have not yet reached their Navy material support date (Repair of Repairables ROR). The requirements stated for all years have been decremented for a lack of

I. Description of Operations Financed (cont'd)

carcass availability. Also reflected in this budget are reduced requirements related to reliability and maintainability design improvements which have increased the mean-time-between-failure for F/A-18 components. The FY 1985 program reflects mid-year implementation of the transfer of aviation depot level repairables to the Navy Stock fund. Repairables reworked in support of USN and USNR aircraft undergoing SDLM at the naval air rework facilities are included in the component rework program through FY 1984. The SDLM support component rework requirement has been decremented in FY 1984 for the transition of concurrent structural component reworks to the airframe program, and eliminated in FY 1985 for the further transfer of concurrent avionics rework.

- Modification Installation This program provides the installation of modifications to improve safety reliability, maintainability and/or readiness of inservice aircraft, and special modifications that extend their useful service life beyond that which was originally engineered. These modifications are of special significance in that they reduce the need to procure new aircraft systems by providing an updated, serviceable weapon system to meet operational commitments. Requirements for the aircraft modification program are generated by the Operational Safety Improvement Program (OSIP). The Aircraft Procurement, Navy (APN) appropriation procures the modification kits identified by the OSIP, which are then installed to produce the necessary improvements in the aircraft system. The O&M,N modification program funds the cost of labor and material needed for the installation of these kits. The objective is a coordinated and balanced program between kit procurement and kit installation. Modifications are installed concurrent with SDLM, on a "drive-in" basis, and by field modification teams for aircraft not scheduled for rework to ensure similar configuration of aircraft within a given unit, and to update flight and maintenance systems of trainer aircraft to a configuration compatible with the fleet.
- E. <u>Aircraft Support Services</u> This program provides unscheduled services to the fleet. The services are budgeted on the basis of historical levels of effort and projected emergent requirements. This program enhances fleet readiness by providing expeditious solutions for the correction of unplanned maintenance problems incurred during fleet operations. Services include salvage of material, fleet maintenance training, customer service, small/uneconomical lot manufacturing, preservation and depreservation, aircraft salvage and recovery, and support of depot maintenance operations.

II. Financial Summary (Dollars in Thousands)

Α.	Sub-	Activity	Group	Breakout

			FY 19	985	FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget <u>Request</u>	Change
Airframe Rework	\$363,692	\$454,515	452,624	\$475,836	\$464,638	-11,198
Engine Rework	227,755	344,208	343,731	334,755	328,396	-6,359
Component Repair	1,082,287	740,757	735,611	688,995	70,503	-618,492
Mod. Installation	231,715	307,821	299,138	312,362	351,831	39,469
Support Service	44,741	69,859	69,190	54,392	32,111	-22,281
Total, Aircraft Rework and Mainter	\$1,950,190	\$1,917,160	\$1,900,294	\$1,866,340	\$1,247,479	\$-618,861

B. Reconciliation of Increases and Decreases

1.	FY	1985 Current Estimate		1,866,340	
2.	Pri	cing Adjustment		-347	٠,٠
	Α.	Stock Fund 1) Non Fuel	(-1,797) -1,797		
	В.	Industrial Fund Rates	(-25,397)		
	c.	Other Pricing Adjustments	(26,847)		
3.	Fun	ctional Program Transfers		-574,846	
	Α.	Transfers In	(16,988)		
		1) Inter-Appropriation Stock Funding of Aviation Depot Level Repairables - Airframes Rework - change in obligational authority resulting from full-year implementation of AVDLR stock funding initiative begun 1 April 1985.	14,464		

2) Stock Funding of Aviation Depot Level Repairables - Engine Rework change in obligational authority resulting from full-year implementation of AVDLR stock funding initiative begun 1 April 1985.

2,524

B. Reconciliation of Increases and Decreases (cont'd)

	В.	Transfers Out	(-591,834)	
		1) Intra-Appropriation Transfer of TH-57 site support services to Fleet Flying Hour Program transfer (includes program growth of \$7,760 between FY 1985 and FY 1986 as shown below).	-19,281	
		2) Inter-Appropriation Stock Funding of Aviation Depot Level Repairables - Component Rework - Transfer of obligation authority resulting from implementation of AVDLR stock funding initiative begun 1 April 1985	-572,553	
4.	Pro	gram Increases		52,337
	Α.	Other Program Growth in FY 1986	(52,337)	
		 Increase to Modification Installation to support depot installation of modification kits funded in APN appropriation. 	44,577	
		 Increase in Support Services for TH-57 site support (included in the transfers out item above). 	7,760	
5.	Pro	gram Decreases		-96,005
	Α.	Other Program Decreases in FY-86 1) Decrease in Airframe Rework Program 2) Decrease in Engine Rework Program 3 Decrease to the Component Rework (ROR) 4) Decrease in Support Service Program	(-96,005) -60,245 -7,828 -22,517 -5,415	
6.	FY	1986 President's Budget Request		\$1,247,479

Activity Group:	Aircraft R	Rework and	<u>Maintenance</u>	(cont'd)

III.	Performance Criteria		FY 1984	FY 1985	FY 1986
Α.	Airframe Rework				
	Stan. Depot Level Maintenance (SDLM)	Units Cost	770 \$229,421	696 \$289,581	537 \$259,189
	SDLM/Modifications	Units Cost	121 \$ 64 , 642	143 \$112,793	186 \$150,346
	SDLM/Conversion	Units Cost	15 \$9, 895	\$3,472	10 \$6,709
	SDLM/Crash Damage	Units Cost	17 \$17,687	10 \$10,643	10 \$10,041
	SUBTOTAL SDLM	Units Cost	923 \$321,645	854 \$416,489	743 \$426,285
	Mid-Term Inspection	Units Cost	65 \$6, 001	95 \$10,177	72 \$9, 180
	Air Worthiness	Units Cost	78 \$ 2,135	73 \$3,174	90 \$ 4,599
	Emergency Repairs	Cost	\$33,765	\$45,861	24,514
	Field Inspection	Units Cost	4 <u>\$146</u>	\$135	\$61
	SUBTOTAL Other	Units Cost	147 42,047	171 59,347	163 38,353
	TOTAL Airframe Rework	Cost	\$363,692	\$475,836	\$464,638
В.	Engine Rework				
	Engine Overhaul	Units Cost	252 \$ 18 , 222	256 \$24,122	175 \$18,913
	Engine Repair	Units Cost	1,876 \$204,546	2,178 \$295,869	1,972 \$300,648
	SUBTOTAL O/H & Repair	Units Cost	2,128 \$222,768	2,434 \$319,991	2,147 \$319,561
	Gear Boxes/T.M. (O/H)	Units Cost	204 \$2,203	292 \$4,956	323 \$5,500
	Gear Boxes/T.M. (Repair)	Units Cost	144 \$1,857	118 \$1,777	47 \$ 818

		····ciance	(conc d)		
III.	Performance Criteria. (cont'd)		FY 1984	FY 1985	FY 1986
	Special Repair	Units	7	288	-0-
		Cost	\$92	\$ 5,519	-0-
	Field Team	Cost	<u>\$835</u>	\$2,512	\$2,517
	SUBTOTAL Gear Boxes	Units	355	698	370
	Field Team and Special	Cost	\$4,987	\$14,764	\$8,835
	TOTAL Engine Rework	Cost	\$227,755	\$334,755	\$328,396
C.	Component Rework				
	2R Cog (Av. Repairables				
	- ASO)		\$988,298	\$599, 810	-0-
	Repair of Repairables (ROR) SDLM Support		59,855	89,185	70,503
	TOTAL Component Rework		$\frac{34,134}{\$1,082,287}$	-0-	-0-
			\$1,082,28/	\$688,995	\$70,503
D.	Modification Installation				
	Concurrent with Aircraft Rework		***		
	Drive-In Mod		\$34,497	\$48,038	\$58,445
	Field Mod Team		3,509	4,828	4,414
	Trainer		14,428 702	37,161	20,546
	Comm'l Mod Install		176,431	381 221,954	314
	Verification Install		2,148	-0-	268,112 -0-
	TOTAL Modification Inst.		\$231,715	\$312,362	\$351,831
Ε.	Support Services				
	Preservation/Depreservation		\$6,448	\$ 7,931	\$5,372
	Salvage Acceptance/Transfer		592	746	569
	Customer/Fleet Training		2,542	3,207	1,892
	Customer Services		3,706	4,676	2,380
	Other Support Items		5,956	7,223	5,365
	Material Support (Govt. Control)	1	17,534	18,584	16,233
	Aircraft Recovery		7,700 263	11,025 1,000	0
	TOTAL Support Services		$\frac{203}{44,741}$	\$54,392	300 \$32,111
TOTA	AL Aircraft Rework				
	Maintenance Requirement		2 000 400	1 005 400	1 415 100
	Constraint		2,098,488 1,950,190	1,995,408	1,415,163
	Back log		148,298	1,866,340 62,756	1,247,479
	Executable Backlog		29,700	62,756	167,684 167,684
	•		22,.00	0-1700	107,004

IV. Personnel Summary

Non-applicable

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: <u>Air-Launched Weapons Rework</u>
Budget Activity: <u>7 - Central Supply and Maintenance</u>

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Missile maintenance requirements financed by this program include missile testing, repair, rework, Navy approved modifications and on-site technical assistance to maintenance facilities. Quantities of missiles requiring a test are computed based on the length of time that a missile can remain ready for issue in the Fleet. When the test is due, or a missile fails in the Fleet, the missile is returned to a Naval Weapons Station where it is tested, disassembled and repaired, and reassembled. Major missile sections requiring repair beyond the capability of the naval weapons stations are forwarded to a designated overhaul point for rework. This program provides for all action required to maintain the asset readiness posture prescribed by the Chief of Naval Operations. In addition, this program provides for missile engineering expense directly associated with the repair of the weapon.

The air-launched ordnance and ammunition maintenance requirements financed by this program provide for the renovation of air-launched ordnance, ammunition and explosive devices and on-site technical assistance to maintenance facilities. Maintenance is performed on Navy-owned ordnance/ammunition items outside the perview of the Army single manager, including material in Navy retail outlets, depot repairable Navy material located in Army inland depots and items excluded from the single manager charter such as aircraft installed Cartridge Actuated Devices (CADs) and Aircrew Escape Propulsion Systems (AEPS). The FY 1985 budget displays an increase for 4Z Cog components relative to ordnance maintenance which will remain Appropriation Purchases Account material. This program provides for all action required to maintain the asset readiness posture prescribed by the Chief of Naval Operations. In addition, this program provides for ordnance engineering expense directly associated with the repair of the weapon.

The special weapons maintenance and support program provides for maintenance and on-site technical assistance to maintenance facilities for weapons training devices.

Activity Group: Air-Launched Weapons Rework (cont'd)

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

	FY 1984	Budget Request	FY 1985 Appro- priation	Current Estimate	FY 1986 Budget Request	Change
Air-Launched Missile Rework	\$ 58 , 530	\$79,084	\$77,084	\$77,251	\$ 63 , 826	\$-13,425
Air-Launched Ordnance and Ammunition Rework	9,927	34,609	34,609	30,223	32,554	2,331
Special Weapons Maintenance and Support	<u>5,810</u>	6,424	6,424	6,454	7,115	<u>661</u>
Total, Air-Launched Weapons Rework	\$74,267	\$120,117	\$ 118 , 117	\$113,928	\$103,495	\$-10,433
B. <u>Reconciliation</u>	of Incre	ases and De	ecreases			
1. FY 1985 Current Es	timate					\$113,928
2. Pricing Adjustment	s					-3,302
A. Stock Fund				(-1,080)		
1) Non-Fuel				-1,080		
B. Industrial Fun	d Rates			(-3,693)		
C. Other Pricing	Adjustmen	ts		(1,471)		
3. Functional Program	Transfer	S				_
4. Program Increases						5,647
A. Other Program	Growth in	FY 1986		(5,647)		
 Increased funding for the full year implementation of the Airborne Armament Equipment (4Z Cog) maintenance program transferred to the Air-Launched Weapons Rework Program on 1 April 1985. Development of work measurement standards required for Expendable Ordnance (2E Cog), Aircraft Gun Systems (6B Cog) and Airborne Armament Equipment (4Z Cog) to ensure that 						

Activity Group: Air-Launched Weapons Rework (cont'd)

В.	Reconciliation	of	Increases	and	Decreases	(cont'd)

maintenance production operations provide effective maintenance support at the least cost.

1,046

3) Increased quantity of maintenance actions required on nuclear weapons due to the projected number of limited life component and parachute exchanges required during FY 1986.

535

Increased renovation of bombs/components based on projected assets requiring repair.

1,547

Program Decreases 5.

-12,778

0th	er Program Decreases in FY 1986	(-12,778)
1)	Completion of the Sparrow AIM-7F	

Product Optimization Program (POP) modification in FY 1985.

-5,562

2) Completion of the AIM/RIM-7M missile identification retrofit which provides an identification signal to the aircraft that distinguishes between an AIM/RIM-7M and AIM-7F missile allowing utilization of the enhanced 7M capability.

-1,803

3) Reduced modification funding for the SHRIKE thermal protection retrofit, the HARPOON Block 1C program, and the PHOENIX AIM-54A electronic assemblies upgrade.

-4,201

4) Decrease in the quantity of maintenance actions required on the SHRIKE missile system due to a decrease in projected maintenance due date expirations in FY 1986.

-854

5) Completion of the HARPOON missile subsystem test set modification.

-358

FY 1984

6. FY 1986 President's Budget Request

\$103,495

FY 1985 FY 1986

Performance Criteria.

Air-Launched	MISSILE	Kework
Sidowindon		

Units 1,716 1,376 Cost \$9,051 \$8,812 \$5,841

Sparrow

III.

Units 1,547 1,862 1,790 \$21,899 Cost \$17,364 \$13,695

Activity Group: Air-Launched Weapons Rework (cont'd)					
III. Performance Criteria (cont'd)		FY 1984	FY 1985	FY 1986	
A. Air-Launched Missile Rework (cont'd)					
Walleye	Units	890	1,045	1,066	
	Cost	\$4, 258	\$3,136	\$4,743	
Shrike	Units	1,556	1,601	1,040	
	Cost	\$3,593	\$4,649	\$3,034	
Standard Arm	Units	95	91	98	
	Cost	\$2,988	\$ 2,144	\$ 2,775	
Phoenix	Units	1,348	1,395	1,406	
	Cost	\$6,986	\$ 9,554	\$7,851	
Harpoon	Units	491	521	530	
	Cost	\$13,721	\$25,705	\$24,040	
Harm	Units Cost	\$161	56 \$1,079	105 \$1,533	
Тоw	Units Cost	488 \$ 408	\$ 153	\$ 155	
Hellfire	Units Cost	-	\$ 85	\$ 86	
Maverick	Units Cost	-	\$ 17	8 \$ 55	
Skipper	Units Cost		\$ 18	\$ 18	
Totals	Units	8,131	7,947	6,843	
	Cost	\$58,530	\$77,251	\$63,826	
B. <u>Air-Launched Ordnance and</u> <u>Ammunition Rework</u>					
Aircrew Escape	Units	\$435	991	753	
Propulsion System	Cost		\$ 1,497	\$ 2,065	
Cartridge Actuated	Units	5,077	9,965	9,073	
Propulsion System	Cost	\$853	\$1,160	\$1,187	
Bombs/Components	Units	301,405	31,610	67,463	
	Cost	\$3,218	\$2,990	\$4, 772	

Activity Group: Air-Launched Weapons Rework (cont'd)

III. Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986	
B. Air-Launched Ordnance and Ammunition Rework cont'd)				
	nits 7,562 cost \$592	8,014 \$633	13,902 \$555	
	Inits 2,136,409 sost \$635	94,944 \$294	259,836 \$348	
	Inits 15,298 cost \$742	23,934 \$ 1,571	4,265 \$774	
	Inits 552 Cost \$35	118,598 \$101	74,350 \$104	
	Inits 324 Cost \$2,083	470 \$ 3,787	507 4,064	
	Units N/A Cost \$149	N/A \$173	N/A \$170	
	Inits N/A Sost \$481	815 \$6, 133	1,834 \$9,887	
	Units N/A	67 \$ 2,730	30 \$1,084	
	Units N/A	1,244 \$7,430	766 \$4, 283	
	Jnits N/A Cost \$133	N/A \$149	N/A \$145	
	Jnits N/A Sost \$571	98 \$1,575	613 . \$3,116	
	Units 2,466,627 Cost \$9,927	290,750 \$30,223	433,402 \$32,554	
C. Special Weapons Maintenance				
	Jnits 9,591 Cost \$5,810	7,860 \$6,454	11,134 \$7,115	
Total Requirements Total Funding Total Backlog Total Executable Backlog IV. Personnel Summary. Not Applicable	\$78,492 74,267 4,225 0		103,495 21,657	

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Other Aviation Systems Maintenance
Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Funding in Other Aviation Systems Maintenance provides for the following:

- A. The Calibration program funds labor and materials at calibration laboratories and annexes, four Naval Air Systems Command (NAVAIR) standards laboratories, the Navy Bureau of Standards, and other Navy, Army, and Air Force calibration laboratories under government contract. The calibration laboratories calibrate support equipment and standards which are beyond the capability of fleet intermediate level capability. The NAVAIR standards laboratories calibrate standards from the lower echelon laboratories.
- B. The Overhaul of Support Equipment (SE) program provides funding for depot level maintenance of aviation support equipment under the cognizance of NAVAIR, Inventory Control Points and Type Commanders. Support equipment is inducted into depot facilities for inspection, disassembly, repair and verification of repair in accordance with established maintenance specifications. SE maintenance includes end item repair, check, test, component replacement, painting and corrosion control when incidental to rework, and incorporation of all engineering changes. The Service Life Extension Program for support equipment is also accomplished under the SE program. In addition, the program finances the Aviators Breathing Oxygen repair program, rework specification production, and quick engine change pool management.
- C. The Meteorological Support program leases facsimile equipment for dissemination of weather data to approximately sixty stations, and the installation, maintenance and support of meteorological equipment and shipboard readout equipment.
- D. Target Maintenance provides depot level maintenance for targets, and support for equipment and training pods essential for fleet training.
- E. The Airborne Mine Countermeasures program provides ready-for-issue mine countermeasures equipment in sufficient quantities to support peacetime operating and training requirements and a sufficient inventory of equipment to support a wartime requirement until a production flow of material can be established. The program finances the overhaul of equipment as well as the calibration of hydrodynamic components in their operating environment prior to fleet issue.
- F. Overhaul of Aircraft Cameras supports the overhaul and repair of aerial cameras. This program provides film processing and printing, and analysis for photographic mobile van complexes in support of fleet operational training flights. In addition, the program provides technical, material and operational readiness in support of tactical aerial reconnaissance pod systems.
- G. The Coast Guard program provides for maintenance and support of Navy-owned electronic equipment in Coast Guard aircraft.

Activity Group: Other Aviation Systems Maintenance (cont'd)

I. Description of Operations Financed. (cont'd)

H. Aviation Tactical Software provides for the maintenance of systems software, and the incorporation of software changes necessary to ensure maximum operational capability of all naval aircraft/weapon systems which employ digital computers.

II. Financial Summary. (Dollars in Thousands).

Α.	Sub-Ac	<u>tivity</u>	Group	Breakout.

ne das nocivitaj an	oup breake	<u></u>	FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget <u>Request</u>	Change
Calibration	\$60,259	\$73,841	\$73,634	\$73,412	\$71,310	\$-2,102
Overhaul of SE	78,512	99,907	92,736	93,134	108,281	15,147
Meteorological Support	2,784	3,311	3,311	3,313	3,219	-94
Target Maintenance	5,190	7,424	6,789	6,789	13,534	6,745
Airborne Mine Countermeasures	9,192	10,171	10,171	10,171	10,595	424
Overhaul of A/C Cameras	2,789	3,548	3,548	3,548	3,401	-147
Coast Guard	1,929	2,155	2,155	2,202	2,332	130
Aviation Tactical Software	38,674	52,658	50,158	46,158	56,926	10,768
Total, Other Aviation Systems Maintenance	\$199,329	\$253,015	\$242,502	\$238,727	\$269,598	\$30,871

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate	\$238,727
2.	Pricing Adjustments	-16,317

Α.	Stock Fund 1) Non-Fuel	(-159) -159
В.	Industrial Fund Rates	(-19,311)

C. Other Pricing Adjustments (3,153)

B. Reconciliation of Increases and Decreases (cont'd) 3. Functional Program Transfers 1,023 A. Transfers In (1,023)1) Inter-Appropriation Stock Funding of Aviation Depot Level Repairables-Change in obligational authority resulting from full-year implementation of AVDLR stock funding initiative, begun 1,023 1 April 1985. 4. Program Increases 46,341 A. Other Program Growth in FY 1986 (46,341)1) Increase to support additional conversion/repair efforts for the QST-33, QST-35, Vandal, and newly introduced AQM-37C targets; implementation of a tow reeling machine modification program; and increased TAS component repair. 6,557 2) Increase maintenance support for the MK-105 magnetic minesweeping systems in preparation for activation of one additional MH-53E squadron. 616 3) Increase maintenance requirements for 239 HH-65 aircraft communications equipment. Increase in support equipment reworked and for modification installations related to support equipment 23,673 5) Increase for eight additional tactical software configuration items and additional support for ongoing configuration items 11,675 6) Increase in calibration hours for more complex calibrateable items 3,581 -176 Program Decreases A. Other Program Decreases in FY 1986 (-176)Decreases in maintenance support for Aircraft Cameras due to reduction in

Activity Group: Other Aviation Systems Maintenance (cont'd)

-82

requirements

Activity Group: Other Aviation Systems Maintenance (cont'd)

2) Decrease in maintenance support for meteorological equipment

-94

6. FY 1986 President's Budget Request

\$269,598

	•				•
III.	Performance Criteria.		FY 1984	FY 1985	FY 1986
	Calibration				
	Type I Lab	Units Cost	11,869 \$3,632	7,320 \$2,862	6,890 \$2,267
	Type II Lab	Units Cost	12,310 \$2,856	12,332 \$3,675	11,298 \$2,915
	Type III Lab NIF	Units Cost	152,010 \$ 29,186	148,320 \$36,190	128,952 \$32,238
	Non-NIF	Units Cost	77,678 \$13,983	77,385 \$15,090	82,802 \$17,890
	Commercial	Units Cost	21,204 \$10,602	26,924 \$15,595	27,708 \$16,000
	TOTAL	Units Cost	275,071 \$60,259	272,281 \$73,412	257,650 \$71,310
	Overhaul of SE				
	Mobile Electric Power Plants (MEPP's) & Air Conditioner	Units Cost	393 \$ 13,661	367 \$16,606	411 \$18,498
	Tractors and Firetrucks	Units Cost	301 \$6,863	295 \$8,730	327 \$10,074
	Hydraulic, Pneumatic, and Oxygen/Nitrogen Servicing	Units Cost	548 \$7,508	540 \$9, 662	607 \$11,293
	Armament Handling Equipment	Units Cost	11,201 \$10,051	10,287 \$10,801	10,565 \$11,305
	Automatic Test Equipment and On-Site Rework	Units Cost	304 \$32,089	278 \$34,100	289 \$38,903
	Peculiar Support Equipment and Miscellaneous Avionics	Units Cost	3,391 \$8,340	4,095 \$13,235	5,187 \$18,208
	TOTAL	Units Cost	16,138 \$78,512	15,862 \$ 93,134	17,386 \$108,281

III.	Performance Criteria (cont'd)		FY 1984	FY 1985	FY 1986
	Meteorological Support				
	Major Overhaul of Systems/Subsystems (Units)		12	12	12
	Minor Overhaul of Systems/Subsystems (Units)		30	40	39
	Target Maintenance				
	Aerial Targets (Units)		182	64	163
	Surface Targets (Units)		53	16	92
	Airborne Mine Countermeasures				
	Repair Mechanical	Units Cost	61 \$40 8	5 \$54 8	5 \$ 778
	Acoustical	Units Cost	22 \$1,580	10 \$1,500	20 \$1, 942
	Overhaul Mechanical	Units Cost	20 \$4, 022	15 \$4, 300	14 \$3,804
	Acoustical	Units Cost	\$1,658	9 \$ 2 , 978	10 \$3,115
	Calibration Mechanical	Units Cost	100 \$154	100 \$100	100 \$ 92
	Acoustical	Units Cost	87 \$ 900	150 \$ 745	100 \$864
	"Intense Look"*	Units Cost	10 \$470	-	- -

 $[\]star$ "Intense Look" is the project title for the Suez Canal sweeping operation

Activity Group: Other Aviation Systems Maintenance (cont'd)						
III. Performance Criteria. (cont'd)	FY 1984	FY 1985	FY 1986			
Overhaul of Aircraft Cameras						
Major Systems Rework (Units)	1,190	1,337	1,314			
Other Maintenance Actiions (Units)	777	891	875			
Coast Guard (Units Maintained)						
Radar	604	612	609			
Communication	391	479	549			
Navigation	142	182	190			
Peculiar Support Equipment Calibration & Repair	260	276	288			

Aviation	Tactical	Software
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Consumable Parts

AVIATION TACTICAL SUITWARE		1984	FY 1		FY 1	1986
Weapons System	Items	No. of SCPs	Config. Items	SCPs_	Config. Items	SCPs
TACAMO	1	5	1	5	1	6
S-3A	2	54	5	60	5	70
A-7	2	40	2	52	2	57
F-4	1	1	1	2	1	2
SH-2, 3 TACNAV	1	4	2	6	2	10
A-4M	1	12	1	14	1	16
F-14	2	64	2	71	2	74
CAINS	5	5	6	6	7	7
A-6	2	50	2	41	1	44
AWG-21	$\bar{1}$	3	$\bar{1}$	3	1	4
EA-6B	$\bar{2}$	18	2	24	3	18
P-3C	4	44	6	48	6	66
P-3B	2	4	3	6	3	6
AN/AYK-14	$\bar{2}$	6	2	6	2	6
MTASS	$\bar{2}$	7	2	13	Ž	16
AEDAS/GSS	$\bar{2}$	6	2	7	2	9
F-18	6	60	7	70	7	84
EWSSA	2	10	5	25	8	40
HARM	_		-	-	ĭ	13
AIM-7M	_	_	-	_	ī	4
AV-8B	_	-	_	-	ī	72
HIS-2	•	-	-	-	i	5

482

505

499

(SCPs - Software Change Proposals) (Config. - Configuration Items) Activity Group: Other Aviation Systems Maintenance (cont'd)

III. Performance Criteria. (cont'd)

FY 1984 FY 1985 FY 1986

Total Requirements
Total Funding
Total Backlog
Total Executable Backlog

\$239,029 \$292,899 \$307,681 199,329 238,727 269,598 39,700 54,172 38,083 - 42,229 25,222

IV. Personnel Summary.

Not applicable

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Maintenance Support
Budget Activity: 7 - Central Supply and Maintenance
Claimant: Chief of Naval Material (Naval Air Systems Command)

1. Description of Operations Financed.

This activity group provides maintenance support services for aviation systems and equipment utilized in aircraft, calibration and support equipment, targets, airborne mine countermeasures, and air launched missiles and ordnance. Services include technical investigations, reviews and evaluations of maintenance requirements and integrated logistic support plans. The Air-Launched Missile Maintenance Support line specifically finances on-site technical assistance and support to fleet operating units, quality evaluation of in-service weapons, review and evaluation of maintenance requirements, review and development of integrated logistic support plans, and contractor interim support for air-launched missiles transferred from the Weapons Procurement, Navy appropriation in FY 1986.

Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	<u>Change</u>
Aircraft Maintenance	FT 1304	vednest	pi tacton	LSCIMALE	Request	change
Support Air-Launched Missile	\$5,282	\$3,120	\$2,611	\$2,611	\$2,581	-30
Maintenance Support	14,109	15,691	14,914	14,914	22,422	7,508
Calibration Maintenance Support	5,230	5,052	3,755	3,755	3,771	16
Support Equipment Maintenance Support	999	1,208	1,014	1,014	1,051	37
Target Maintenance Support	397	418	353	353	366	13
Airborne Mine Counter- measures Maintenance						
Support	<u>577</u>	354	344	344	305	
Total, Maintenance Support	\$26,594	\$25,843	\$22,991	\$22,991	\$30,496	\$7,505
B. Reconciliation of Inc	reases and	Decreases	_			

1.	FY 1985 Current Estimate		\$22,991
2.	Pricing Adjustments		718
	A Industrial Fund Rates	(202)	

(516) Other Pricing Adjustments

Activ	rity Group: Maintenance Support ((cont'd)								
	B. Reconciliation of Increases and Decreases (cont'd)									
	3. Functional Program Transfers	;			6,477					
	A. Transfers In			(6,477)						
	1) Inter-Appropriation Transfer from Weapo ment, Navy to fund Integrated Logistic for air-launched mi interim support.	ons Procure- Contractor : Support		6,477						
	4. Program Increases				310					
	A. Other Program Growth in	FY 1986		(310)						
	1) Increased analysis Air-Launched Missil due to a projected carry activity and to-surface weapon e 2) Increased effort re ration and review o evaluation of integ plans and developme reliability and ser for weapons systems		221 89							
	5. Program Decreases				-					
	6. FY 1986 President's Budget R	equest			\$30,496					
III.	Performance Criteria.		FY 1984	FY 1985	FY 1986					
	Sidewinder	Workyears Cost	11.3 \$739	13.0 \$ 829	14.6 \$ 931					
	Sparrow	Workyears Cost	12.3 \$803	13.8 \$853	15.4 \$ 959					
	Walleye	Workyears Cost	5.9 \$501	4.7 \$348	4.8 \$363					
	Shrike	Workyears Cost	4.0 \$303	7.2 \$ 557	7.3 \$572					
	Standard Arm	Workyears Cost	.3 \$23	.3 \$24	.3 \$24					
	Phoenix	Workyears Cost	11.2 \$721	9.2 \$555	10.8 \$ 652					
	Harpoon	Workyears Cost	11.4 \$617	7.3 \$559	7.9 \$604					
		7 033								

Activity Group: <u>Maintenance Support (cont'd)</u>

III. <u>Performance Criteria (cont'd</u>)	<u>1</u>	FY 1984	FY 1985	FY 1986
Harm	Workyears	.4	1.6	1.6
	Cost	\$30	\$145	\$148
Tow	Workyears	.6	1.3	1.3
	Cost	\$50	\$99	\$101
Hellfire	Workyears Cost	:	.1 \$5	\$10
Skipper	Workyears	-	.1	•1
	Cost	-	\$7	\$7
Aircrew Escape	Workyears	3.2	4.4	4.4
Propulsion System	Cost	\$209	\$289	\$294
Cartridge Actuated	Workyears	10.9	9.5	9.5
Devices	Cost	\$720	\$641	\$ 653
Bombs/Components	Workyears	16.1	11.5	11.5
	Cost	\$1,268	\$896	\$ 913
Pyrotechnics	Workyears	3.1	3.1	3.1
	Cost	\$206	\$208	\$ 211
Ammunition	Workyears	.8	.8	.8
	Cost	\$66	\$66	\$67
Rockets/Launchers	Workyears	3.3	3.3	3.3
	Cost	\$275	\$253	\$258
Aircraft Gun	Workyears	.6	.6	.6
Systems	Cost	\$ 51	\$51	\$51
Airborne Weapons Control and Release Equipment	Workyears Cost	.1 \$10	.1 \$10	.1 \$10
Bomb Racks	Workyears Cost	\$i1	\$11	\$11
Submarine Warfare	Workyears	• <u>1</u>	;1	•1
Airborne Devices	Cost		\$7	\$7
Missile Launchers	Workyears Cost	.2 \$12	\$13	\$13
Engineering Technical	Workyears	40.5	45.1	44.7
Assistance Missiles	Cost	\$2,276	\$2,709	\$2,683

Activity Group: Maintenance Supp	ort (cont'd)			
III. Performance Criteria (cont'	<u>d)</u>	FY 1984	FY 1985	FY 1986
Engineering Technical Assistance Ordnance	Workyears Cost	25.1 \$1,415	34.5 \$2,029	34.5 \$2,053
Depot Maint. Support	Workyears Cost	300.9 \$16,281	230.7 \$11,827	232.8 \$12,424
Contractor Integrated Logistic Support				
Sidewinder	Workyears Cost	-	-	.8 \$106
Sparrow	Workyears Cost	-	-	5.2 \$675
Phoenix	Workyears Cost	-	-	5.9 \$763
Harpoon	Workyears Cost	-	-	37.9 \$4, 933

IV. Personnel Summary

Not applicable

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Procurement Operations
Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

This activity group finances personnel and support costs for Naval Plant Representative Offices, Project Management Offices - AIR and the Theater Nuclear Warfare Office.

The Inspection and Contract Administration Program finances the six Naval Plant Representative Offices (NAVPROs) located at Bethpage, Burbank, Dallas, Lynn, Stratford and St. Louis, which provide Contract Administration Services as outlined in the Defense Acquisition Regulations 1-406 including administrative contracting officer functions in the six assigned major weapon systems' manufacturing plants. The 72 functions listed in the Defense Acquisition Regulations are statutory requirements that must be performed under the Procurement Act of 1958 as amended (Public Law 85-804). The Naval Plant Representative Offices provide a single onsite government interface for the Department of Defense, National Aeronautics and Space Administration, and Foreign Military Sales Representatives with the assigned major weapon systems manufacturers. The NAVPROs assure that the manufacturer's quality assurance, engineering, industrial management, logistics and production, contractual processes, procedures and products conform to contractual requirements.

The Project Management Office - AIR (PMOA) program provides dedicated overall management for programs designated by the Secretary of Defense as major systems acquisition programs (SECNAVINST 5000.1A). The PMOA also has management responsibilities for naval aviation programs, subsystems and components. These include control of all resources (all support necessary for specific major systems acquisition programs); integrated planning, acquisition, initial support and readiness; also, directing implementation and appraising the performance of technical and business tasks assigned to the Naval Air Systems Command functional elements.

The Theater Nuclear Warfare Project Office (PM-23) was established to modernize the Navy's theater nuclear forces and the fleet's capabilities to operate in a nuclear environment.

Activity Group: Procurement Operations (cont'd)

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Break-out.

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Inspection and Contract Admin-						
istration	\$27,527	\$31,092	\$30,774	\$32,321	\$35,511	+\$3,190
Project Management Office-AIR	8,251	8,935	8,844	9,054	10,049	+995
Theater Nuclear Warfare Project						
Office	2,129	2,718	2,718	2,757	2,731	<u>-26</u>
Total, Procurement Operations	\$37,907	\$42,745	\$42,336	\$44,132	\$48,291	+\$4,159
B. Reconciliation of	Increases	and Decrea	ses.			
1. FY 1985 Curre	ent Estimat	e				\$44,132
2. Pricing Adjus	stments					-1,644
 A. Civilian Personnel Compensation (Direct) 1) U.S. Direct Hire Pay Adjustment 2) Other Pricing Adjustments 				(-1,785) -1,427 -358	
B. Stock Fur 1) Non-F					(-1) -1	
C. Other Pri	icing Adjus	tments			(142)	

3. Program Increases

6,021

A. Other Program Growth in FY 1986

(6,021)

1) Inspection and Contract Administration (NAVPRO): 4,812
a) Increase to fund salaries and support costs, including Permanent Change of Station (PCS) and training for an additional 53 workyears associated with Contract Administration Services (CAS). This increase supports a new SECNAV initiative to reduce the backlog of overage orders, control growth of contractor overhead costs, and reduce fraud, waste and abuse (1,773).

Act	ivity Gr	oup:	Pro	ocurement Operations (cont'd)		
В.	Reconci	liat	ion	of Increases and Decreases (cont'd)		FY 1986
			b)	Increase for salaries and support costs, including PCS and training for an additional 70 workyears associated with the Buy Our Spares Smart (BOSS) program. BOSS is a new initiative to improve spare parts acquisition through breakout, competition, intensified pricing and value engineering (3,039).		
		2)		ject Management Office AIR (PMOA): Increased travel and support requirements due to recently assigned programs (209).	1,209	
			b)	Increase to provide PMA contractor support for several weapons systems (S-3, WSIP, E-6A, ASPJ, H-1/0V-10) scheduled to enter production in FY 1986. These support services are not integral to the execution of procurement programs and must be funded as expense in the Operations and Maintenance appropriation (1,00)		
	4.	Pro	gram	Decreases		-218
		Α.		er Program Decreases in FY 1986 Inspection and Contract Administration (NAVPRO):	(-218)	
				Decrease of 7 end strength and 4 workyears as a result of economies and efficiencies in workforce.	-182	
			2)	Theater Nuclear Warfare Project Office: Reduction of technical guidance	-36	

necessary to establish contractural criteria for nuclear weapons

design and evaluation.

FY 1986 President's Budget Request

5.

\$48,291

Activity Group: Procurement Operations (cont'd).

III. Performance Criteria.	FY 1984	FY 1985	FY 1986
A. <u>Inspection and Contract Administration (</u>	NAVPRO)		
(Dollars in Millions)			
Number of NAVPROs	6	6	6
Total Number of Contracts	32,966	37,587	42,370
Value of all goods and services accepted	\$7,73 2	\$8,511	\$9,091
Return on Investment	\$387	\$448	\$502
Value and number of procurement actions	\$1,569 8,788	\$1,648 9,113	\$1,755 9,386
Value and number of unpriced orders negotiated	\$1,646 5,218	\$1,790 4,274	\$2,079 4,452
Value and number of	\$2,341	\$1,716	\$1,390

Naval Plant Representative Offices (NAVPROs) are Contract Administration Services (CAS) activities required to administer an increasing number of contracts which generate a large backlog of overage orders. The level of backlog is over two billion and action has been taken to reduce it with increased end strength. Our ability to reduce backlog is dependent upon resources and the amount of work. With current resources we are achieving a return on our investment on total "goods and services accepted" through: cost savings (cost avoidance by timely contract negotiations), technical cost advisories provided to procurement contract officers, actual negotiations with the contractors, withholding of non-conforming materials, recoupment actions in defective pricing, breakout of spare parts, and increased competition. Intensified pricing will also be provided for more intensified review of subcontract costs, analysis of three year vice one year pricing history for each item included in the spares order and review of a larger sampling of the bill of material and proposed labor hours that appear in the contractor's proposal.

3,744

3,281

3,057

B. Project Management Office-AIR (PMOA)

unpriced order backlog

Number of Programs Managed	43	44	44
Total funds managed (Dollars in Millions)	\$9,482	\$11,284	\$ 13 , 117
Funding actions initiated	9,400.	9,565	10,110
Management of Engineering Change Proposal Process.			
Number of ECPs	3,460	3,755	3,780

Activity Group: Procurement Operations (cont'd)

III. Performance Criteria (cont'd).

C. Theater Nuclear Warfare Project Office

PM-23, as the acquisition manager for theater nuclear warheads, does not have the normal performance milestones associated with contractor effort (e.g. annual fee determination or price determination for the next procurement lot). The actual acquisition of nuclear weapons is done by the Department of Energy. We help set requirements, justify the needs, resolve interface problems during development, evaluate for acceptance and establish logistic support capabilities.

Another area of involvement in acquisition is the EMPRSS II where DNA uses our technical assistance to run their pulser contract. We are also establishing a barge building/systems integration contract that will be administered by the Naval Sea Systems Command (NAVSEA).

IV. Personnel Summary (End Strength)

		FY 1984	FY 1985	FY 1986
Α.	Military	<u>193</u>	225	223
	Officer Enlisted	176 17	205 20	203 20
В.	Civilian	1,109	1,269	1,452
	USDH	1,109	1,269	1,452

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Command and Administration

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Command and Administration is responsible for the development, acquisition, improvement, and support of aircraft, aviation weapons and related equipment and support systems. Command and Administration functions are policy development, long-range planning and programming, management and distribution of resources, review and evaluation of programs and performance, implementation and management control of depot level aviation maintenance programs at the Naval Air Rework Facilities, support of aeronautical depot maintenance, review of acquisition and depot maintenance programs, and coordination of interservice depot maintenance. Command and Administration finances personnel compensation, travel, and other administrative and support services related to Command and Administration personnel.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout.

			FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget <u>Request</u>	Change	
Command and Administration	\$24,378	\$22,849	\$22,614	\$23,261	\$22,346	<u>-\$915</u>	
Total, Command and Administra	ation \$24,378	\$22,849	\$22,614	\$23,261	\$22,346	-\$915	
B. Reconciliation of Increases and Decreases FY 198							
1. FY 1985 Cu	ırrent Estimate					\$23,261	
2. Pricing Ad	ijustments					-639	
1) U.	A. Civilian Personnel Compensation (Direct) 1) U.S. Direct Hire Pay Adjustment 2) Other Direct Pricing Adjustments				(-702) -750 48		
B. Stock 1) No	Fund on-fuel				(-11) -11		
C. Other	Pricing Adjustme	ents			(74)		

Activity Group: Command and Administration (cont'd)

C.	Recor	nciliatio	on of Increases and Decreases (cont'd)		FY 1986	
	3. Functional Program Transfers						
		A. Tr. 1)	ansfers In Inter-Appropriation Expense/Investment Criteria R Amounts transferred from Othe Procurement, Navy pursuant to the proposed DoD initiative f elimination of \$3 thousand in threshold and adoption of cen ment criteria as the governing	r or vestment tral manage-	(168) 168		
	4.	Program	m Decreases			-444	
		A. Ot!	her Program Decreases in FY 198 Reduction in travel support r due to the Naval Aviation Log	equired	(-444)		
			Center (NALC) reorganization.		-235		
		2)	Reduction in contractor suppo computer and equipment mainte and other purchased services decreased support requirement	nance, due to	-209		
	5.	FY 1986	6 President's Budget Request			\$22,346	
III.	Per	rformance	e Criteria and Evaluation	FY 1984	FY 1985	FY 1986	
	Nur	mber of l	Field Activities Supported	29	29	29	
	Tot	tal Civi	lian Population Supported	41,977	41,676	42,354	
	Tot	tal Mili	tary Population Supported	3,914	4,091	4,110	
			ing Managed in billions)	\$16.7	\$20.0	\$22.6	
IV.	Per	rsonnel:	Summary (End Strength).				
	Α.	Milita	<u>ry</u>	<u>37</u>	<u>39</u>	39	
		Office Enlist		31 6	33 6	33 6	
	В.	Civili	<u>an</u>	<u>595</u>	589	589	
		USDH		595	589	589	

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Field Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

This activity group finances personnel and operating expenses required to develop long-range plans for the effective operation of naval aviation logistics systems; on-site instruction and training of organizational and intermediate level maintenance personnel, and technical documentation programs. This activity group also funds weapon system engineering and logistics support, secondary supply point functions, common military support functions, and operational support of the Navy Test Pilot School. Funds are provided at four major field activities: 1) Naval Aviation Logistics Center (NAVAVNLOGCEN); 2) Naval Weapons Engineering Support Activity (NAVWPNENGSUPPACT); 3) Naval Aviation Engineering Services Unit (NAESU); and 4) NAVAIR Technical Services Facility (NAVAIRTECHSERVFAC). These funds finance civilian personnel compensation, travel, automatic data processing, and related support costs required for engineering and technical support for Naval Air Systems Command and its designated project managers. Funding for the Operational Support-Field program is also provided for personnel salaries, benefits, travel, transportation, administrative and support services. Funds previously budgeted under this activity group to operate and refurbish the Solomon's Island complex were realigned to Base Operations under the Naval Air Systems Command.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

	FY 1964	Budget Request	FY 1985 Appro- priation	Current Estimate	FY 1986 Budget Request	Change
Operational Support-Field	\$71,784	\$77,998	\$74,383	\$80,375	\$84,122	\$3,747
Military Support: Naval Avionics	5,702	8,015	7,935	5,757	5,250	-507
Center (NAVAVIONICCEN)	(1,008)	(1,224)	(1,213)	(1,113)	(1,262)	(149)
Naval Air Engineering Center (NAVAIRENGCEN)	(4,419)	(4,591)	(4,544)	(4,644)	(3,988)	(-656)
Solomon's Island	(275)	(2,200)	(2,178)	. 0	0	0

A. <u>Sub-Activity Group Breakout (cont'd)</u>.

			FY 1985			
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget <u>Request</u>	Change
NAVAVNLOGCEN	\$20,381	\$24,725	\$23,171	\$21,070	\$22,021	\$951
Weapon Systems Support (WSS)	61,928	111,354	103,019	105,603	96,411	-9,192
Test Pilot School (TPS)	12,463	14,203	14,052	14,998	16,668	1,670
NAVWPNENGSUPPACT	12,212	13,504	11,961	12,726	13,695	969
NAESU	22,897	25,827	22,848	25,430	26,410	980
NAVAIRTECHSERFAC	8,333	8,283	8,194	8,790	9,081	291
Total, O&M,N	\$215,700	\$283,909	\$265,563	\$274,749	\$273,658	\$-1,091

B. Reconciliation of Increases and Decreases.

1.	FY	1985 Current Estimate		\$274,749	
2.	Pricing Adjustments				
	Α.	Civilian Personnel Compensation 1) U.S. Direct Hire Pay Adjustment 2) Other Direct Pricing Adjustments	(-3,966) -4,189 223		
	В.	Stock Fund 1) Fuel 2) Non-fuel	(-477) 12 -489		
	c.	Industrial Fund Rates	(-15,874)		
	Ε.	Other Pricing Adjustments	(1,517)		
3.	Fun	ctional Program Transfers		2,170	
	Α.	Transfers In	(2,170)		
		1) Inter-Appropriation a) Expense/Investment Criteria Revision- Amounts transferred from Other Procure- ment Navy pursant to the proposed DoD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as a governing factor.	1,638		

- B. Reconciliation of Increases and Decreases (cont'd).
 - b) Stock Funding of Aviation Depot Level Repairables - change in obligational authority resulting from full-year implementation of AVDLR stock funding initiative begun 1 April 1985.

532

Program Increases

16,532

A. Other Program Growth in FY 1986

(16,532)

1) Operational Support Field:

5,361

- a) Annualization of FY 1985 end strength increases and associated support costs for industrial preparedness planning, aviation training updates and readiness improvements for direct fleet support. (521)
- Provides full implementation of the Buy Our Spares Smart (BOSS) Program, a Department of Defense initiative that promotes efficient acquisition of replenishment spares through increased breakout competition, value engineering, and intensified cost price analysis.

Includes ten additional workyears. (4,840)

2) NAVAVNLOGCEN

831

5,985

- a) Fund increase in ADP support costs at NARDAC, Washington. (250)
- Manage technical directorate management system that is used for determining fleet pre-position modification kits, including excess equipment, at 14 locations. (303)
- c) Conduct a Weapon Systems Management Logistics Management (WSM/LM) study to determine rework requirements and management of weapon systems. (278)

WSS: 3)

a) Engineering support for the AV-8 airframe, F-402 engine, and establishment of a Logistics Support Analyses/Maintenance Planning Data Base. (538)

Provides for Automated Test Equipment In-Service Engineering to support new and revised test program sets being transitioned from contractor support to Navy organic support. This includes the LAMPS MKIII, F-14, APX-100 and angle rate bombing system. (3,776)

- B. Reconciliation of Increases and Decreases. (cont'd)
 - Application interfaces for master data record coding, an updated data directory, and improvements to the aviation maintenance information 3-M Data System. (670)
 - d) Engineering and logistics support for the A-6E (TRAM) structures, aircraft mechanical systems, avionics, and electrical systems (1,001).
 - 4) TPS: 1,469
 - a) Funds required to provide fuel (676), parts (383), maintenance (142) and increased range time (86) for additional F/A-18 aircraft being transitioned into TPS during FY 1985/1986.
 - b) Increase in fuel usage due to the integration of UH-60 in replacement of AH-1S aircraft. The exchange is necessary to preserve safety of flight (182).
 - 5) Naval Weapons Engineering 850 Support Activity:
 - a) Provides eleven additional workyears and support for the Buy Our Spares Smart (BOSS) Program. (564)
 - b) Provides funds for production support of various NAVAIR program. (286)
 - 6) Naval Aviation Engineering Service Unit: 1,533
 Annualization of FY85 end strength increase
 for Civilian Technical Specialists who
 provide technical services and training on
 A-6, F-14, P-3, E-2 and other aircraft.
 - 7) Naval Air Technical Services Facility: 503
 - a) Increase of two work years, contracts and supplies for the BOSS Program. (62)
 - b) Increased effort in NAVAIRTECHSERFAC Quality Assurance Program (229)
 - c) Funding is required to correct fire safety defect by lowering the sprinkler system; replace/repair worn out carpet; replace office equipment and relocate NATSF Quality Assurance. (212)

B. Reconciliation of Increases and Decreases. (cont'd)

4. Program Decreases

A. Other Program Decreases in FY 1986

(-993)

- 1) Military Support: Decrease support of secondary stock point function at NAVAVIONICCEN (-156). Decrease purchasing support to BRASO Branch Aviation Supply Office (ASO) for 4R & 5R COG materials from NAC. ASO will be required to assume this without transfer of funds. (-537)
- 2) NAVAVNLOGCEN: Termination of NAVAIRWORKFAC's modernization study.

-300

5. FY 1986 President's Budget Request

\$273,658

-993

				•
III.	Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
	OSF			
	Number of Competitive Contracts	31	33	36
	Number of Requests for Cost	•	33	
	Analyses/Estimates	600	750	780
	Number of Engineering Change			
	Proposals Staffed	3,462	3,755	3,777
	Number of A/C Maint. Programs Managed			36
	Number of Test and Evaluation Master			
	Plans (TEMPS) developed	68	70	75
	ALALIAN TONTOOPAL			
	NAVAVIONICCEN			
	Support Provided for Military and	2	2	2
	Common Services Functions (Workyears) Support Provided for Secondary	2	2	2
	Stock Point Function (Workyears)	24	24	18
	Stock Point Function (workyears)	24	64	10
	NAVAIRENGCEN			
	Number of Inter-Service Tenants			
	Provided Support	19	19	19
	Number of Active/Retired Military			
	Personnel and Dependents Supported	6,000	6,000	6,000
	NAVAVNLOGCEN (Workyears)			
	Engineering and Support Operations	106	111	111
	Logistics Systems Development	82	82	82
	Management Systems Development	44	46 66	46 66
	Staff Management Support of Donat	66	90	00
	Management Support of Depot Level Maintenance	64	65	65
	Total	362	370	370
	IUCAI	302	370	3/0

Activity Group: Field Operations (cont'd)			
III. Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
WSS NAVAIR Bulletins	400	513	525
Local Technical Directives	24,347	26,781	27,120
Publications Documentation (reported in pages in FY 84,85,86)	65,648	68,930	72,376
Modification Documents	960	1,056	1,109
Logistic Support Documents	7,180	7,898	8,293
Technical Documents	58,456	61,500	62,000
Reliability Centered Maintenance Documents	74,757	82,340	85,000
TPS Number of TPS Aircraft Supported	35	35	37
Aircraft Maintenance M/Y	148	148	154
TPS Aircraft Flight Hours	7,200	7,550	7,290
Other Aircraft Flight Hours	1,384	1,410	1,410
Hours Per Month Per Instructor Hours per Month Per Student	22 15	22 15	22 15
Number of Pilots Trained Number of Non-Pilots Trained Number of Instructors	40 20 21	44 16 23	44 16 23
NAESU (Workyears)			
Mission of A/C: Attack Fighter Patrol EW Rotary Anti-Submarine	75.9 78.1 69.8 44.1 26.8 35.7	83.9 87.8 76.9 55.0 29.3 37.0	91.1 96.5 83.3 64.8 31.6 38.2
GSE/ATE Other A/C Admin Total	56.3 63.0 108.3 558.0	<u>113.1</u>	59.5 63.0 114.0 642.0

Activity Group: Field Operations (cont'd)						
III.	Performance Crit	eria and Evaluation	FY 1984	FY 1985	FY 1986	
	NAVA IRTECHSERFAC	2				
	Number of Techni Managed	ical Manuals	33,632	36,000	38,500	
	Number of Techni Reproduced	ical Directives	1,200	1,275	1,350	
		autical Engineering tained (thousands	8,400	9,100	9,800	
	Number of Items Identified as	Required to be Breakout Candidates	12,500	22,000	22,000	
IV. Personnel Summary (End Strength.						
		FY 1984	FY 1985	FY 198	<u>5</u>	
Α.	Military Officer Enlisted	476 294 182	515 335 180	<u>515</u> 331 184		
В.	Civilian USDH	3,201 3,201	3,324 3,324	3,332 3,332		

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Logistic Support Activities
Budget Activity: 7 - Central Supply and Maintenance
Claimant: Chief of Naval Material (Naval Air Systems Command

Pages 7-057 and 7-058 are in response to the House Appropriations Committee requirement contained on page 50 of the HAC Report #98-1086 of 26 September 1984.

NAVAL AVIATION LOGISTICS COMMAND MANAGEMENT INFORMATION SYSTEM (NALCOMIS) REDESIGN STATUS REPORT

<u>Purpose</u>

To respond to the Congressional action item on NALCOMIS by providing a status report on the technical redesign of NALCOMIS. The status report, as directed by the House Appropriations Committee, will address the status of the redesign, as well as, the computer sizing and cost requirements for the redesigned system.

Discussion

- a. Redesign Status. A Request for Proposals (RFP) to provide technical software redesign of NALCOMIS was mailed to interested corporations in September 1984. The RFP calls for the redesign of the existing software which contains translation inefficiencies inherited from the Perkin Elmer based hardware system. It is stressed that the highly successful functional design currently in operation at the prototype site will be retained. Several proposals were received in response and were evaluated to establish a competitive range in October 1984. A request for Best and Final Offers (BFO) was issued in November and the resulting BFO's are currently under final evaluation. The Procurement Review Board convened on 15 January to select the winning bid. Official contract award was announced on 27 January with redesign effort to commence immediately thereafter.
- Computer Sizing. Because computer sizing is the sole reason for redesign of the NALCOMIS software, the Navy is highly confident that the new programs will fit the SNAP I hardware. Nevertheless, the Program Office has structured its acquisition strategy to protect the government by addressing up front the risks associated with a technical ADP redesign, i.e. computer sizing, with provisions to terminate the contract. If technical risks prove to be unacceptable, the contract will provide only for the technical redesign of NALCOMIS, the first element of more than twenty line item elements. remaining elements of the redesign are contained in option items and are contingent upon Navy acceptance of a contractor-developed Executive Decision Paper (EDP). The comprehensive EDP must address size, performance (i.e. response time), and critical risk assessment of the proposed redesign. A Cost Plus Aware Fee type contract was selected to provide the contractor incentive for performance. This contract type was selected to maximize the incentive to the contractor while maximizing government options and minimizing resource investment.

NAVAL AVIATION LOGISTICS COMMAND MANAGEMENT INFORMATION SYSTEM (NALCOMIS) REDESIGN STATUS REPORT

c. Cost requirements for the redesigned system. Program budget projections for the technical ADP software redesign for fiscal year 1985 and 1986:

FY 85 Software design/development \$4.93M \$7.09M Total \$12.02M (Note 1)

Note 1: Contract costs for NALCOMIS redesign for FY 85 expenditure include the basic contract for development of the Executive Decision Paper (EDP). Based on contractor performance and Navy acceptance of the EDP, Option 1 for Intermediate Maintenance Activity (IMA)/Supply Support Center (SSC) software development and training will be exercised. Total costs are \$4.93M in FY 85 for the cost plus award fee contract. Option 2 consists of Organizational Maintenance Activity (OMA) software development and training and will be exercised contingent on satisfactory contractor performance of the basic contract and Option 1.

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Logistic Support Activities

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Logistic Support Activities ensures effective support for aviation systems and equipment; provides reviews of systems in order to simplify, coordinate, or delete as necessary; provides for standardization and configuration control and ensures that reliability and maintainability are designed into aviation systems and equipment. This activity group provides funds for the following:

The Standardization program finances preparation of standardization documents necessary for the procurement and maintenance of major weapons systems, subsystems, equipment, and components relative to Naval aircraft. Use of standardized equipment reduces acquisition lead times and life cycle costs while improving operational readiness.

The Nuclear Weapons Safety and Security program supports the nuclear weapons delivery capabilities of U.S. Navy aircraft, their associated nuclear weapons and trainers, as well as NATO Nuclear Anti-Submarine Warfare (ASW) aircraft.

The Automatic Test Equipment (ATE) In-Service Engineering program provides for maintenance of electronic software test programs used by intermediate level (ashore and afloat) and depot maintenance personnel. These test programs are written in computer language to provide the stimulus and response necessary for automatic testing, trouble-shooting and verification of weapon systems, engines, missiles and ATE.

The Automatic Test Equipment Center is responsible for performing ATE systems engineering and logistic services to ensure that ATE systems are provided to effectively satisfy application requirements and operational needs, and to ensure that technical, configuration, and logistics elements compatability is maintained between the ATE systems and the avionics systems and subsystems being supported.

The Installation of Aviation Ground Support Equipment program involves the alteration of existing facilities to the extent necessary to receive aviation ground support equipment and ensure that it is totally operational in all respects.

The Electromagnetic Interference program (EMI) addresses EMI problems existing in fleet aircraft. Through aircraft class evaluations, fleet investigation teams, fleet EMI problem reporting, and EMI data base management, EMI problems are identified and solutions recommended.

The Contingency Reserve Aircraft program manages the storage and removal of aircraft and parts from aircraft that are in the Navy's active inventory at the Military Aircraft Storage and Disposition Center (MASDC) at Davis - Monthan Air Force Base.

Description of Operations Financed (cont'd)

The Interservice Equipment Oil Analysis program provides technical support to oil analysis laboratories.

The Safety program supports safety management and engineering efforts necessary to support aircraft, weapons, and support systems for Naval Air Systems Command headquarters and its field activities.

The Navy Occupational Safety and Health programs are designed to prevent mishaps, reduce injury and property damage costs, improve employee morale and well being and ensure compliance with regulatory requirements.

The Material Disposal program reclaims parts and assemblies from stricken Navy aircraft at MASDC and Naval Air Rework Facilities. This program also provides for the reclamation and disposal of obsolete/damaged ground support equipment, obsolete tools and production equipment.

The Naval Aviation Logistics Command Management Information System (NALCOMIS) is a modern and effective management information system that will respond to aircraft maintenance and material management requirements aboard aircraft carriers, amphibious aviation helicopter assault ships (LPHs and LHAs), Marine aircraft group, and Naval/Marine Corps air stations. Specific objectives are to increase aircraft material readiness, reduce inventory loss and improve repairable turnaround time.

The Naval Aviation Logistics Data Analysis System (NALDA) provides the administration and cost for the maintenance of low and high speed remote terminals installed at all the necessary geographical locations in support of the entire Naval aviation logistics community to solve logistics and maintenance problems.

The Integrated Logistic Support (ILS) Management of Support Equipment (SE) program provides management information systems for aircraft and SE rework. It also supports inventory management, ILS management, and contractor maintenance engineering at the prime contractor and field activities for common SE, such as, avionics, handling and servicing, electronic warfare and ATE.

The Range Support program provides for logistic support of training range systems, for maintenance and operating costs of six telemetry receiving stations, installation of equipment for fleet training ranges, and support of the Tactical Aircraft Combat Training System (TACTS); for all costs necessary to support a fully instrumented range at the Pacific Missile Range Facility (PMRF); and, for costs associated with the Mobile Sea Range for instrumentation maintenance, target support, data collection systems, tracking systems, and the integration of systems for open ocean exercises.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

FY 1985 FY 1986						
			Budget	Appro-	Current	Budget
	FY 1984	Request	priation	<u>Estimate</u>	Request	<u>Change</u>
Chardendinskian	2 620	4,468	4,468	4,468	5,741	1,273
Standardization Nuclear Weapons Safety	3,629	4,400	4,400	4,400	5,741	1,2/3
& Security Ashore	2,156	2,607	2,607	2,607	2,694	87
Automatic Test Equipment		2,007	2,007	2,007	2,034	0,
Test Programs - In-	•					
Service Engineering	12,963	10,531	8,058	8,058	9,590	1,532
Automatic Test	,500	20,002	0,000	0,000	3,030	3,002
Equipment Center	4,764	5,350	5,350	5,350	5,440	90
Installation Aviation	.,	.,	.,	-,		
Ground Support Equip	1,129	2,475	2,170	2,170	3,601	1,431
Electromagnetic	•	•	•	•	•	•
Interference (EMI)	4,708	3,984	3,984	4,784	4,803	19
Contingency Reserve	•	-				
Aircraft	3,585	2,532	2,532	2,532	3,193	661
Interservice Equipment						
Oil Analysis	523	754	754	754	720	-34
Safety	244	132	132	132	686	554
Navy Occupational Safety						
& Health (NAVOSH)	893	1,016	1,016	1,016	877	-139
Material Disposal	5,051	5,344	5,344	3,506	3,258	-248
Naval Aviation Logistics	5					
Command Information						
System (NALCOMIS)	12,555	16,013	15,853	15,853	16,028	175
Naval Aviation Logistics						
Data Analysis (NALDA)	4,740	2,559	2,506	5,208	9,553	4,345
Depot Maintenance Data	700	•	•	•	•	•
Collection Systems	720	0	0	0	0	0
Carrier Aircraft Reading		•	•	•	•	•
Improvement (CARI)	681	0	0	1 700	0	0
Other Support Services	3,106	1,817	1,799	1,799	2,263	464
ILS Mgmt of Support	10 707	0.150	0.765	10 (17	00 400	0.001
Equipment	10,727	9,150	8,765	12,617		9,881
Range Support	37,791	35,121	34,644	35,213	47,812	12,599
Total, Logistic Support						
Activities	109,965	103,853	99,982	106,067	138,757	32,690
WELLA IFIED	103,300	103,033	JJ, J OZ	100,007	130,/3/	36,030

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate \$106,067

2. Pricing Adjustments

A. Stock Fund (-88)
1) Non-Fuel -88
B. Industrial Fund Rates (-1,052)
C. Other Pricing Adjustments (2,574)

3. Functional Program Transfers

11,039

1,434

Transfers In:

1) Inter-Appropriation:
Funds transferred from Aircraft
Procurement, Navy to the ILS
Management of Support Equipment Program to provide for
inventory management, integrated
logistics management and contractor
maintenance engineering support at
the prime contractor and field
activities for common support
equipment (i.e. avionics, handling
and servicing, electronic warfare,

Expense/Investment Criteria Revision - Amount transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as a governing factor (+3,239).

and automatic test equipment) (+7,800).

4. Program Increases

20,854

A. Other Program Growth in FY 1986

(20,854)

1,476

(11,039)

11,039

1) Standardization:
These funds will permit execution of the following efforts:
Perform extensive document reviews and updating of the most widely used NAVAIR overage standardization documents; Ensure that DOD Parts Control Program is addressed/implemented in NAVAIR acquisitions; Support competitive procurement by NAVAIR to minimize problems related to erroneous parts substitution; Increase competition

B. Reconciliation of Increases and Decreases (cont'd)

in Qualified Products List (QPL's) used by NAVAIR; Support Acquisition Improvement Program Initiative #14 (Improving Contract Requirements) through tailoring specification requirements in contracts and limiting indirect "chain referencing"; and support metric implementation.

- 2) Nuclear Weapons Safety/Security:
 These funds will ensure NAVAIR
 compliance with DOE/DOD Memoranda
 of Understanding and NATO Programs
 of Cooperation.
- 3) ATE In-Service Engineering: 1,314
 These funds provide for approximately 250 additional maintenance actions on test program sets.

47

1,338

- 4) ATE Center:

 This increase provides for ATE data
 base transactions, CPU hours for automatic
 test program generator, and ATE tape
 breakage/burnout replacement.
- 5) Installation of Aviation GSE:
 These funds provide the
 following additional installations:
 Four(4) Mobile Maintenance Van Complexes,
 Four (4) Engine Test Stands, Three (3) Flight
 Line Electrical Distribution Systems.
- 6) Electromagnetic Interference (EMI):
 These funds will support conduct of
 electromagnetic environmental effects
 (E³) surveys of air capable ships to
 determine safe operating criteria for
 aircraft and missiles.
- 7) Contingency Reserve Aircraft:

 These funds provide for increased material and workload requirements associated with CNO's annual represervation, CNO's updated configuration of mobilization aircraft and aviation depot level repairable items required for mobilization and withdrawal aircraft.

- B. Reconciliation of Increases and Decreases (cont'd)
 - 8) Interservice Equipment Oil Analysis: 31
 These funds will be used in support
 of spectrometer maintenance.
 - 9) Safety: 549 These funds provide for management and technical support of NAVAIR aviation safety programs: for management information systems (mishap/hazard data, aircraft report recommendations, NATOPS changes, safety engineering changes); aviation safety officer and government flight representative training and conferences; support of oversight inspections of both NAVAIR activities and contractor flight operations; support type commander safety and NATOPS manual conferences; and provide technical inputs into specifications for aircraft flight incident recorders (+225).

This increase will also support the major system safety requirement of ensuring life cycle safety engineering capability. Presently, safety engineering is performed primarily during aircraft development phase by the aircraft contractor. Production and out-of-production aircraft have little or no safety evaluation. The life cycle system safety capability includes: Development/training of in-house Navy personnel to ensure analysis of airframe changes; performance of service life extension safety analysis; development of risk management of methodologies for life of aircraft; performance of trade studies and safety technology transfer between different aircraft; and development of aircraft mishap lessons learned data bank (+324).

10) Material Disposal:
These funds support increased requirements
for R-1820 engine parts reclamation, and
support equipment reclamation programs.

37

11) NALDA:

These funds provide for increased user support (TYCOMS/WINGs, CFAs/IMAs) and timesharing costs at the corporate data base centralized computer complex and for redesign to enhance user friendly accessibility.

- B. Reconciliation of Increases and Decreases (cont'd)
 - 12) Other Support Services:
 This increase provides for continued development and maintenance of the Aviation Weapons Longe Range Logistics Plan.
 - 13) ILS Management of Support Equipment:

 This increase is for the Support Equipment
 Resources Management Information System
 (SERMIS) program which provides improved
 procedures for scheduling and production
 status of support equipment for rework, and for
 the Augmented Management program which improves
 effectiveness of supply support during
 the augmented support period.
 - 14) Range Support:

11,361

406

- 1) Range Instrumentation: (+11,250)
 - These funds provide for the a) ongoing installation of fleet training range equipment. Each installation varies in cost based on the sophistication of equipment as well as type and location of the range. Major installation costs for FY 86 include: computer mod software, Atlantic Fleet Weapons Training Facility (AFWTF); underwater training range expansion, AFWTF; antisubmarine warfare, Southern California (SOCAL); Tactical Aircrew-Combat Training Systems (TACTS) ranges; Weapons Impact Scoring Systems (WISS); and noise jammer simulator, Pacific Missile Range Facility (PMRF) (+8,662).
 - b) For 2D2 support the result of a realignment of funding responsibility, range electronic warfare (EW) simulator and general range maintenance support, TACTS repair of repairables (ROR) and lead field activity support for existing TACTS ranges (+1,238).
 - c) Provides funding for preprocurement planning for upcoming training range equipment acquisitions (e.g. TACTS, range EW simulators, underwater systems etc.), configuration management and ILS support (+1,350).

- B. Reconciliation of Increases and Decreases (cont'd)
 - 2) Mobile Sea Range: (+111)
 This increase will maintain a basic level of effort for instrumentation support of fleet exercises and provide full instrumentation for four exercises.
- 5. Program Decreases

-637

- A. Other Program Decreases in FY 1986 (-637)
 - 1) NAVOSH:

 Reduction in planned occupational safety and health training efforts for Command activities, curtailment of on-site standardized course development and presentation, and deferral of specialized work center course development under the computerized PLATO training system.
 - 2) NALCOMIS: -506
 This overall program decrease is attributed to decreased fleet implementation costs for the NALCOMIS Repairable Management Module (NRMM); however, the technical redesign (i.e. software design and development) of the ADP software referred to as "NATIVE MODE" is scheduled to be completed during FY 1986.
- 6. FY 1986 President's Budget Request

\$138,757

III. Performance Criteria

FY 1984 FY 1985 FY 1986

Standardization (In Units)

A complete and accurate set of military specifications and standards is essential to establishing a complete technical data package for competitive reprocurements. Several of the items listed below have a direct impact on enhancing competition in NAVAIR acquisitions, particularly the DOD Parts Control Program implementation, Qualified Products List (QPL) actions, and projects to prepare new and/or update overage documents.

Project Completed DD-1585			
Actions	674	760	900
QPL Actions	173	195	265
Standardization Document Improvement Proposal DD-1426	173	195	260
Engineering Support Request DD-339	138	150	210
Comment and Review Actions	1000	1130	1400
5 Year Overage Document Review Program	900	1020	1100
International Standardization Document Program (Implementation Data) ASCC Air Std's/Working Parties, 10 11, 12, 14, 15, 17, 20 and 104;			
Air Std's Reviewed	150	170	220
Military Documents Reviewed re ASCC	150	170	220
NAVAIR Implementation Report Reviewed for NATO Working Parties Al, AE, ASP, AA, GGS; NATO Documents Reviewed	120	135	175
Military Documents Reviewed re NATO	160	180	200
NAVAIR Contracts using DOD Parts Control Program	30	36	40
Computerization of System Spec references to facilitate tailoring	1	3	10
Metric Document Actions	60	70	120

Activ	ity Group: Logistics Support Activities	(cont'd)		
III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986
	Nuclear Weapon Safety and Security - Asho	ore		
	Engineering Assurance Tasks for Nuclear Certification of Out-of-Production Aircraft:			
	(Number of Aircraft)	-	4	4
	Basic Design Engineering Support of Weapons:		-	
	(Number of Weapons)	4	7	11
	Nuclear Safety Program (Includes all supporting logistics elements in the Stockpile to Target Sequences)			
	Number of Weapon Systems Supported: Domestic	6	7	7
	Foreign Safety Studies	2	3 5	3 6
	ATE Test Programs - In-Service Engineerin	•	3	U
	This program maintains approximately 5,00 which 2,300 maintenance actions are requi	— 00 Test Pr		s of
	(In Units of Test Program Sets)			
	Safety of Flight	83	80	82
	Strategic/Tactical Avionics Systems	840	820	840
	Multiple/Batch Processing of Similar Systems	700	650	720
	Mission and Flight Essential Systems	85	80	85
	ATE Center (In Units)			
	Engineering Change Proposals Reviewed	45	50	60
	Field Bulletins Reviewed	72	80	80
	Support Equipment Requirements Data Packages	540	600	600
	Automatic Test Equipment (ATE) Data Base Transactions	1,350	1,500	1,600
	Test Program Sets Verifications Conducted	280	320	350
	Operational Logistic Support Plans Prepar	ed 4	5	5

Activity Group: Logistics Support Activities

III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986	
	Tailored Outfitting Lists Generated	310	360	365	
	Unsatisfactory Reports Processed	180	200	250	
	Publications/Work Packages Reviewed	130	140	150	
	Off-line Maintenance Procedures Work Packages	63	70	70	
	Central Processing Unit Hours Provided for Automatic Test Program Generation	11,250	12,500	13,900	
	ATE Software Change Requests Processed	135	150	160	
	ATE Tapes Replaced Due to Breakage and/or Burn-out	450	500	780	
	Installation of Aviation GSE (Units)				
	Engine Test Stands	15	6	10	
	Compressor Test Stand	-	4	-	
	Cryogenic Facilities	3	4	4	
	Mobile Maintenance Van Complexes	3	4	8	
	Hybrid Test Sets	1	2	5	
	Miscellaneous GSE	7	2	11	

NOTE: There is no direct correlation between the number of equipment installations and total cost of installation. A number of site-peculiar variables, i.e. soil conditions, building alteration requirements, length of primary utility runs, HVAC requirements, physical security requirements, etc. that determine cost of each installation. It is not unusual for there to be a substantial difference in cost of installing similar systems at different locations.

EMI			
Aircraft (No. of A/C)			
Test Preparation	3	3	3
Evaluation	3	. 3	3
Test Analysis	3	3	3
Fleet Assist			
Fleet Investigation Team Visits			
(No. of Visits	8	8	8

Activity Group:	<u>Logistics</u>	Support	<u>Activities</u>
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III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986
	EMI Data Base Develop, Maintain, Analyze (% completed)	60	80	85
	EMI Test Capability Augment and Upgrade (3 year effort starting in FY 85) (% Completed)	-	35	35
	Electromagnetic Environmental Effects Survey of Air Capable Ships for Aircraft and Missiles (No. of Surveys)		-	7
	Contingency Reserve Aircraft			
	Inputs (A/C)	78	55	38
	Withdrawals (A/C)	25	16	27
	Maintenance in Storage (A/C)	1,340	1,380	1,420
	Represervations (A/C)	62	23	63
	Man Hours Required	73,748	51,280	68,170
	Interservice Equipment Oil Analysis			
	No. of Joint Oil Analysis Labs supported	137	137	137
	No. of Carrier Type Labs Supported	20	20	20
	No. of Mobile Van Labs Supported	1	2	2
	Safety (In Units)			
	Field Activities Receiving Training Aircraft Contractor Safety Audits Safety Inputs into Contracts Safety Data Items Reviewed Field Activity Safety Audits/Inspections Spec/Standards Inputs System Safety Investigations Aircraft Project Safety Audits Ordnance Safety Board Support Engineering Change Proposal Analysis Support	26 2 158 214 4 15 - 4 25	22 1 150 200 2 12 3 2 10	54 4 180 220 17 28 - 5 22
	Safety Engineers at Field Activities	15	12	20

Activity Group: Logistics Support Activities

III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986
	Navy Occupational Safety and Health (NA	(H2OV		
	Number of Inspections Conducted Number of Personnel Trained (000) Reduction in Disability Frequency (%)	20 10 15	25 20 3	20 18 3
	Material Disposal (Units)			
	Aircraft Reclamation (SARDIP) Engine Reclamation (RILOP) Support Equipment Reclamations (SERP) Routine Reclamation (A/C) Strike-on-Arrival (A/C)	14 117 139 54 65	16 146 330 77 64	19 315 394 49 62
	NALCOMIS			
	Sites Implemented:			
	Marine Aircraft Groups (MAGs) Large Naval Air Stations Medium Naval Air Stations Small Naval Air Stations Total Sites	1 2 - (3)	6 4 4 2 (16)	- - -

In FY 1986 funds will be used to complete the technical redesign of NALCOMIS "NATIVE MODE" software, specifically the Organizational Maintenance Activity level design and development; software maintenance of the NALCOMIS Repairables Management Module (NRMM) and "NATIVE MODE" by the Central Design Activity at the Navy Management Systems Support Office (NAVMASSO); maintenance of the sixteen (16) sites being implemented during FY 1985, and long-lead implementation preparation (e.g. ship alteration preparation and site implementation preparation for FY 1987 sites); hardware management overhead and program management costs.

NALDA

Sub-system/programs operated	6	6	8
Sub-system/programs maintained	6	6	8
Number of activities/users supported			
and trained.	220	242	294
Telecommunications lines/modems/			
multiplexes/controller	48	56	62
CPU/time-sharing usage cycles	120	132	160
Reports maintained/modified/updated	400	480	526
Number of 3-M aviation maintenance transactions including maintenance			
performance, material and parts usage, flight and aircraft readiness statistics	40,800	44,400	48,000

Activity Group: Logistics Support Activities

	• • • • • • • • • • • • • • • • • • • •			
III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986
	Number of 3-M aviation report outputs for the fleet, headquarters commands, shore activities and support units:			
	Recurring (monthly/quarterly to approximately 1100 customers) On-Demand (one-time)	780 840	840 900	900 960
	Depot Maintenance Data Collection System	<u>ıs</u>		
	Number of Master Data Records Revised (Coded and Loaded) into Aviation 3-M System	74,569	-	-
	Carrier Aircraft Readiness Improvement			
	Readiness Improvement Reviews	6	-	-
	Other Support Services			
	Security Alarm Systems (Number of Systems)	9	11	12
	Back-up data/services to present the Navy's defense against contractor claims (Number of actions)	30	30	30
	Aviation Weapons Long Range Logistic Plan (\$000)	441	425	428
	Support for Simulation Package for Evaluation by Computer Techniques, Readiness, Utilization and Maintenance (SPECTRUM) (\$000)	1,500	-	-
	ILS Management of SE (W/Y)			
	NAVAIR Field Activities NAVORD Field Activities Commercial Effort	24 53 30	50 51 66	62 57 154
	Range Support			
	Range Instrumentation: Range Instrumentation and Integrated			_
	Logistic Support (W/Y)	13	11	14
	Telemetry Stations Supported	6	6	6
	Range Installations*	3	3	6
	Tactical Aircraft Combat Training System Integrated Logistic Support (W/Y)	4	5.6	9

Activ	ity Group: Logistics Support Activities	(cont,d)		
III.	Performance Criteria (cont'd)	FY 1984	FY 1985	FY 1986
	* Each installation varies in cost complexity and type of equipment installation site.			
	Pacific Missile Range Facility (PMRF): Range scheduling, safety, surveillance and operations (Civilian/Military W/Y at PMRF)	191	188	189
	Range Services - Operations and Maintenance of Instrumentation Systems, Launch, Recovery, Photography, Data Collection and Reduction, and Base Facilities (Contractor W/Y)	406	413	415
	Range improvements, software development and depot level maintenance of all technical equipment (Civilian W/Y at Pacific Missile Test Center)	40	40	40
	Mobile Sea Range: Phase I Fleet Exercises Target Operations Instrumentation Vans in Fleet Exercise Ship Installation of Equipment/Vans	4 64 1 20	4 72 2 25	4 72 4 40
IV.	Personnel Summary (End Strength)			
		FY 1984	FY 1985	FY 1986
	A. Military	-	2	2
	Officer Enlisted	-	2	2

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Engineering and Support Services

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Engineering and Support Services finances engineering and logistical support for aircraft launch and recovery, visual landing aids, wind measurement and aircraft/ship interface management; installation and modernization of airfield lighting and marking systems, emergency arresting gear and visual approach guidance systems; engineering and technical services in support of the Navy/Marine Corps mission; design and maintenance engineering for all in-service ground support equipment; and design engineering effort associated with generating remedial design changes essential to operational readiness of in-service fleet aircraft and related equipment.

This activity group provides for reliability and maintainability implementation during the conceptual, validation, development, and production phases of major programs; service life extension of specific aircraft models or series; the preparation, update, reproduction and distribution of technical weapon systems manuals; and the investigation of deficiencies involving aviation life support equipment.

II. Financial Summary (Dollars in Thousands).

A. <u>Sub-Activity Group Breakout</u>.

	FY 1984	Budget Request	FY 1985 Appro- priation	Current Estimate	FY 1986 Budget Request	Change
Expeditionary Airfields	\$4, 815	\$7, 786	\$6,595	\$6,317	\$ 5,915	\$-4 02
Shorebased Landing Aids	2,092	3,532	3,449	3,323	3,201	122
Aviation Mobile Facilities	3,964	9,520	4,319	4,144	5,424	+1,280
Maintenance Mgmt Plans & Engineering	5,493	-0-	-0-	-0-	-0-	-0-
Analytical Maintenance Program	11,973	-0-	-0-	-0-	-0-	-0-

A. Sub-Activity Breakout (cont'd)

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Aircraft Structural Life Surveillance	6,197	5,379	5,185	4,993	7,912	+2,919
Ground Support Equip Engineering Support	10,493	11,591	10,910	10,506	9,659	-847
Survival Equipment	2,820	2,326	2,246	3,002	4,168	+1,166
Technical Publications	12,601	12,324	11,915	14,368	19,956	+5,588
Catapults and Arresting Gear	20,398	21,523	20,954	20,188	19,472	-716
Reliability and Maintainability	1,854	1,242	1,207	1,162	1,551	+389
Engineering Services	19,071	20,973	15,633	19,302	22,144	+2,842
Total Engineering & Support Services	\$101,771	\$96,196	\$82,413	\$87,305	\$ 99,402	\$+12,097
B. Reconciliation	of Increas	ses and Dec	reases			
1. FY 1985 Current Es	timate					\$87,305
2. Pricing Adjustment A. Industrial Fun B. Other Pricing	d Rates	3			(-1,891) (1,501)	-390
3. Functional Program Transfers A. Transfers In 1) Inter-Appropriation a) Engineering Services: Transfer of follow on test and evaluation for the HARM weapon system from the Research, Development, Test and Evaluation, Navy appropriation. (900)			(1,232) 1,232		1,232	

b) Engineering Services:
Amount transferred from Other
Procurement, Navy prusuant to the
proposed DOD initiative for elimination of \$3 thousand investment

B. Reconciliation of Increases and Decreases (cont'd)

threshold and adoption of central management criteria as a governing factor. (332)

4. Program Increases

14,896

A. Other Program Growth in FY 1986
1) Technical Publications:

(14,896) 5,086

1,645

1,256

352

- Increase provides for update and revision to operational, maintenance and repair manuals pertaining to in-service aircraft, engines, and components; maintenance of the Engineering Data Maintenance Information Control System and drawing repository; and update of technical manuals that pertain to ordnance, missiles, avionics, and ground support equipment. This increase reduces the backlog of technical manuals requiring updating.
- 2) Mobile Facilities: Increase supports rapid deployment capabilities of the the Marine Corp by configuring 38 mobile facilities in the backlog.
- 3) Survival Equipment:
 Increase to investigate and resolve major fleet identified aircrew equipment design deficiencies through engineering change proposal (ECP) preparation and implementation. New ECPs include the LAMPS MARK III helmet, AH-1T Gunsight helmet, installation of reflective tape on helmets, CWU Blue Flight Suit, SRU-21/P Survival Vest, Search and Rescue Crew Equipment, MK-124 Flare, Oxygen Mask, and Anti-Exposure Modifications.
- 4) Aircraft Structural Life Surveillance: 2,857 Increase provides for Service Life Assessment program/Service Life Extension program investigations for the F-14, F-18, C-2, P-3 A&B, UH-1N, SH-60, AND UC-12B aircraft.
- 5) Reliability and Maintainability:
 a) Provides for improved prediction
 and measurement techniques for builtin-test, a process which evaluates the
 storage reliability requirement for
 electronic equipment early in the
 production process. (152)

B. Reconciliation of Increases and Decreases

b)	Provides for the Product Deficiency
	Reporting Evaluation Program, a deficiency
	reporting network which identifies the
	Navy's defective material problems. (200)

6)	Engineering Services:	1,450
•	Provides for follow-on test and	, , , , ,
	evaluation for improved 20mm	
	ammunition, Low Level Laser	
	Guided Bomb Kit, BSU-85 Air	
	Inflatable Retarder, AGM-65E	
	MAVERICK, and the AIM-54C PHOENIX.	

7)	Catapults and Arresting Gear:	
	Supports catapult trough cover program.	2,250

5. Program Decreases A. Other Program	: Decreases in FY 1986	(-3,641)	-3,641

1)	Expeditionary Airfields:	-451
	Reduction in AM-2 matting resurfacing.	

2)	Shorebased Landing Aids:	-265
	Reduction in arresting gear	
	installations.	

3)	Ground Support Equipment:	-510
	Reduction of in-service engineering	
	on support equipment.	

4)	Catapults	and	Arresting	Gear:		-2,415	5
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- Reduction for shock analysis of equipment installed in the CUN-71. (-800)
- b) Reduction for the introduction of shock hardened system, and new display and distribution systems for wind measurement systems. (-715)
- c) Reduction for the Central Maintenance Program which corrects improperly conducted maintenance on launch and recovery equipment.(-900)

on launch and recovery equipment.(-900) 6. FY 1986 President's Budget Request

\$99,402

Activity Gro	up: En	gineering	and Supp	ort Services	(cont'd)
110011103 0.0	<u> </u>	3	und Cupp	0. 0 00. 1 000	100.10

III.	Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
	Expeditionary Air Fields			
	In-Service Engineering (WYs)	20	16	15
	Field Technical Services (WYs)	11	12	12
	Expeditionary Airfield Equipment Maintenance/ Resurface AM-2 matting (\$000's)	2,029	3,491	3,290
	Shorebased Landing Aids			
	Arresting Gear Installations Lighting Systems Installations Lighting Systems Modernizations	8 13 4	8 12 13	6 14 13
	Aviation Mobile Facilities			
	Number of Mobile Facilities Configured	112	126	164
	Maintenance Management Plans and Engineering Number of:			
	Source, Maintainability, and Recoverability Code Changes (\$000)	2,900	-	-
	Maintenance Plans Prepared/Revised	34	-	-
	Operational Logistic Support Plan/Integrated Logistic Support Program/Planning Revisions for Avionics, Engines, Life Support System	3	-	-
	Analyses in Support of Engine Monitoring System (EMS), Engine Test Cell Correlation, Engine Corrosion Control	23	-	-
	Engineering Investigations of Airframe and Engine Problems on Out-of-Production System	16	-	-
	Analyses in Support of Level of Repair (LOR), Quantitative Techniques for Determining Maintainability and Provisioning Parameters, Scheduled Removal Component (SRC) Tracking Improvement, Engineering Change Proposal	,		
	(ECP) Cost Model.	8	•	-

III. Performance Criteria and Evaluation FY 1984 FY 1985 FY 1986 Analytical Maintenance Program:

The Reliability Centered Maintenance (RCM)/Analytical Maintenance Program (AMP) concept and its application has demonstrated the feasibility of identifying minimum valid maintenance requirements and their frequencies for all levels of maintenance. A significant impact has occurred in the substantiated reduction of depot visits, expressed in terms of Operating Service Period (OSP). This interval between depot visits has increased for most aircraft on which RCM analysis has been performed. This results in greater aircraft availability to the fleet. Only valid depot requirements are planned to be accomplished, which eliminates duplication of many organizational and intermediate tasks previously performed at the depot.

Aircraft Structural Life Surveillance Program

Structural Appraisal of Fatigue	Aircraft in Progr	<u>am</u>	
Effects Program (SAFE)			
Maintenance of Basic Data			
File (Flight Loads Data)	5,000	5,000	5,000
Data Analysis and Reporting In-House Program/Fleet Support	3,900	4,000	4,500
SAFE Program Expansion (New Aircraft into SAFE)	1 model A-4E/F	2 models F-14 F-18	2 models A-3B KA-3B

Service Life Assessment Program/Service Life Extension Program (SLAP/SLEP)

SLAP and/or SLEP Requirement	A/C Models in Program		
Investigations, SLEP Specifi-		•	
cation Preparation, Structural			
Tests	7	5	12

Performance criteria for the SLAP/SLEP Program are measured not only by the number of aircraft models in the program, but by the type and magnitude of the effort for each of the models. Programs requiring structural tests, for example, require effort level and program costs appreciably greater than those for analytical work.

Survival Equipment Engineering
Number of recurring support functions
provided: 75 75 75

Recurring functions provided include review and approval of engineering change proposals (ECPs), analysis of reported failures or defects, quality control, and technical review pertaining to aviation life support equipment.

ш.	Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1985	
	Number of ECPs implemented.	12	14	19	
	The cost per ECP varies with the complexity of the item to be modified.				
	Technical Publication Number of Technical Manual pages to be updated for in-service out-of-production Weapon Systems	90,007	97,741	129,584	
	Catapults and Arresting Gear				
	<pre>In-Service Engineering/ Fleet Problem Response (WYs)</pre>	97	93	89	
	Fleet Technical Services (WYs)	39	36.5	33.5	
	Test Site Maintenance & Repair (\$000)	1,000	500	0	
	4R Cog Depot Repair (\$000)	1,742	1,810	1,888	
	Aircraft Ship Compatibility (WYs)	20	21	20	
	ACLS Certification (Ships/Air Stations) (\$000)	2,190	1,728	1,804	
	Fire Fighting and Rescue (WYs)	.5	2	2	
	Ground Support Equipment Engineering Support				
	Number of Program Planning Documents to be Revised/Issued	1,062	1,106	1,046	
	Number of Fleet Revealed Deficiencies to be Investigated:	7,864	7,861	6,634	
	Number of Design Changes to be issued:	538	561	531	
	Number of Training Packages Revised/ Issued:	23	25	24	
	Number of Maintenance Plans to be Revised/Issued:	1,505	1,585	1,500	
	Number of Technical Plans and Directives to be Issued:	79	83	78	
	Number of Support Equipment Requirement Data Packages to be Processed:	4,752	4,951	4,687	

Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
Number of Procurement Data Packages to be Revised/Produced:	5,148	5,348	5,081
Number of Pre-award Surveys to be Conducted:	792	830	781
Engineering Services			
Major categories of Basic Design Engineering	(BDE) function	ns perform	ned:
Review and Resolve Design Deficien- cies and Fleet Problems Entered in the AWCAP	1,600	1,750	1,800
Perform Engineering Actions Affecting Hardware Design; e.g., Prepare/ Process ECPs, DCNs, Waivers/Devia- tions, Beneficial Suggestions, Specification Revisions, QDRs, etc.	2,200	2,500	2,550
Maintain Up-to-Date Engineering Data Packages of Drawings, Speci- fications, Parts Lists, etc.	86,500	87,500	87,500
Generate Updated Source Data for Technical Manuals	252	275	275
Generate Updated Source Data for Aircraft Tactical Manuals (Naval Warfare Publications 55 Series)	12	15	15
Respond to Ballistics Data Requests from Fleet and NAVAIR Activities	45	50	55
Perform Safety Studies/Investigations	102	110	110
Support Follow-on Test and Evaluation OT-III by OPTEVFOR	9	2	6
Reliability & Maintainability			
Work-years of Engineering Support	18.9	9.7	15

IV. <u>Personnel Summary</u>. Not Applicable

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Contractor Technical and Maintenance Support

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

This activity group provides Contractor Engineering and Technical Maintenance Support Services (CETS) to Fleet Air Type Commanders' aviation maintenance personnel at the organizational and intermediate levels of maintenance for the purpose of elevating the technical skills of enlisted maintenance personnel to a point that they are capable of doing the maintenance on weapon systems and equipment required for operational readiness. The CETS services are provided by Contractor Field Services (CFS) representatives furnished by DOD contractors. These CFS representatives provide instruction, information and training in the installation, operation and maintenance of weapon systems, equipment and components and may use hands-on training incidental to other forms of training to demonstrate functions associated with a particular task during the instructional process.

The C-2 Contract Support program supports the C-2 aircraft's primary role of providing rapid response to the personnel/critical supply requirements of carrier task groups. The CNO standard of Mission Capability (MC) must be attained, sustained, and preferably exceeded to fulfill the C-2A role as a primary link in the Fleet logistics pipeline. Cumulative effects of aircraft age, lack of manpower and available skills, and control of limited supply assets have contributed to C-2A MC problems. Contractor support enables attainment of increased MC, approaching the CNO standard.

The F/A-18 Contractor Maintenance Support (CMS) Program provides for contractor personnel to support the F/A-18 operations at the NAS Lemoore, NAS Pt. Mugu, China Lake, MCAS El Toro, NAS Cecil Field, MCAS Beaufort as well as supporting deployments to NAS Fallon, MCAS Yuma, Edwards AFB and Nellis AFB. Personnel provide inventory and material control, supply support, technical data support and site management. The management of the repair program in support of the F/A-18 flying program provides for material movement, accountability management, parts tracking, purchasing and other allied functions vitally required to assure intermediate/depot, contractor and subcontractor repair of F/A-18 components, sub-assemblies and systems. All of the above efforts are accomplished prior to Material Support Date (MSD). Post MSD contractor services support the operations of a Wholesale Support Site (WSS) that concentrate all F/A-18 unique wholesale material at a dedicated site at NAS Lemore. Contractor services are required at ASO to perform distribution control functions of WSS material. The WSS program maximizes material availability by means of a real time data base, intensive expediting, and positioning of wholesale assets close to both users and repair sources. A transfer of funds from APN to O&M.N in FY 1986 has been accomplished to properly provide maintenance engineering support for peculiar support equipment and interim support efforts.

Activity Group: Contractor Technical and Maintenance Support (cont'd)

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout

	<u>FY 1984</u>	Budget Request	FY 1985 Appro- priation	Current Estimate	FY 1986 Budget Request	<u>Change</u>
CETS CMS C-2 Contract	\$75,117 18,099 Support <u>2,589</u>	\$79,055 12,459 2,662	\$79,055 12,189 2,635	\$78,216 27,590 2,635	\$84,777 43,828 2,366	\$+6,561 +16,238 -269
Total O&M,N	\$95,805	\$94,176	\$93,879	\$108,441	\$130,971	\$22,530

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate 108,4	,441
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2. Pricing Adjustments 4,662

29,700

A. Other Pricing Adjustments (4,662)

3. Functional Program Transfers

A. Transfers In 1) Inter-Appropriation (29,700) 29,700

Transfer from APN to O&M, N to provide integrated logistics management support for maintenance/field activities in support of initial operations. Support consists of Logistic Support Representatives (LSR) from the prime contractor for Bonded Store Room facilities and manpower for initial spares management. This includes contractor maintenance engineering support for peculiar support equipment for the following weapon system: F/A-18; A-6E; F-14A; AV8B; EA-6B; P-3C; E-2C; S-3; H-2; H-1; SH-60B; CH-53. It also includes Enhanced Comprehensive Asset Management System (ECAMS). An interim on-line interaction computerized GSE monitoring system supporting F/A-18 A/C and F404 engines Engine Life Analysis (ELA). Involves monitoring F404 engine performance. Contractor Integrated Logistic Support (CILS). Provides on-site personnel for operation and maintenance support of the Radar Test Station.

Activity Group: Contractor Technical and Maintenance Support (cont'd)

B. Reconciliation of Increases and Decreases (cont'd)

4. Program Increases

3,615

A. Other Program Growth in FY 1986

1) CETS Increase of 33.3 work years is essential for support of the continuing introduction of the F/A-18 aircraft which is currently undergoing several airframe and avionics equipment modifications attendant to Fleet introduction. Additionally, the increase is vital to the H-60 helicopter support during its introduction to the Atlantic Fleet, and the activation of two H-60 support sites at NAS Sigonella and NAS Cubi Pt.

Also, as complex and sophisticated new systems and modifications of mature systems are being introduced, additional work years are required to support the increase use of more complex Common Automatic Test Equipment (CATE), which is emerging as a result of these introductions.

2) CMS funds are needed to support newly identified requirements of the Airborne Self Protection Jammer (ASPJ) electronic countermeasures system. The ASPJ (AN/ALQ-165) provides combat survivability against modern diversified radar controlled weapon systems.

417

(3,615)

3,198

5. Program Decreases

-15,447

A. Other Program Decreases in FY 1986

(-15,447)

1) CMS/WSS is scheduled to begin phase out. The need for dedicated supply support at the Wholesale Support Site (WSS) at NAS Lemoore and NAS Cecil Field decreases as organic support is established.

-5,751

2) <u>CMS</u> Reduction in support from the APN transferred amount for ECAMS (-3,998), ELA (-1,815) and CILS (-3,501).

-9,314

Activity Group: Contractor Technical and Maintenance Support (cont'd)

- C. Reconciliation of Increases and Decreases (cont'd).
 - 3) Reduction in $\underline{C-2}$ cost is anticipated as a result of competitive versus sole source contracting efforts

-382

6. FY 1986 Congressional Budget Request

130,971

III. Performance Criteria and Evaluation.

Contractor Engineering and Technical Services (CETS)

Aircraft Mission	F'	Y 1984	F	Y 1985	FY	1986
	MY	\$000	MY	\$000	MY	\$000
Attack	157.6	14,199	155.0	14,564	156.1	15,287
Fighter	192.5	16,269	193.1	17,131	200.6	18,551
Patro1	42.3	3,802	41.5	3,719	43.7	4,082
Anti-Sub	134.6	11,992	134.1	13,001	138.8	14,032
Rotary Wing	70.7	5,821	71.0	5,815	74.4	6,382
Electronic Warfare	141.5	11,111	141.0	12,879	146.0	13,892
GSE/CATE	88.9	8,167	87.2	8,581	92.0	9,395
Other	29.2	3,756	28.9	2,526	33.6	3,156
TOTAL	857.3	75,117	851.8	78,216	885.2	84,777

Contractor Maintenance Support (CMS):	FY 1984	FY 1985	FY 1986
No. of Bases Supported No. of Squadrons Supported No. of Aircraft Supported No. of Flight Hours No. of PGSE Maintenance manhours	6 12 151 41,276	10 20 185 63,751	13 53 484 149,460 355,888

C-2 Support Services:
Contractor Maintenance/
 Logistic Support at "O"
 and "I" Levels (WORKYEARS)

21 21

22

IV. Personnel Summary (End Strength).

Not Applicable

Department of the Navy Operation and Maintenance Navy Exhibit OP-5

Activity Group: Maintenance of Real Property
Budget Activity: Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Maintenance of Real Property funds provide for facilities maintenance to NAVAIR field activities under each respective host-tentant agreement. The Naval Air Engineering Center (NAEC) at Lakehurst, New Jersey is the only NAVAIR activity which does not operate under a tenant status; NAEC is a host activity for the entire Lakehurst Naval Base.

Minor Construction funds finance the following two areas:

- 1) Minor Construction (Equipment Installation) The costs for work directly related to the installation of equipment, i.e., secondary utilities, special foundations and pads, equipment air conditioning, etc., that are required for the equipment to operate, are defined as Equipment Installation costs.
- 2) The costs for all other work that is not directly related to the installation of the equipment, but is required for the equipment to function in its intended operational environment, i.e., primary utilities, area lighting, personnel, air conditioning, security fencing, etc., are defined as construction costs and limited to \$200K per project. These funds are disbursed to 0&M,N activities (NAVAVNLOGCEN Patuxent River, NAVAIRTECHSERFAC Philadelphia, NAVAIRENGCEN Lakehurst, and PACMISRANFAC Barking Sands).

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout.

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change	
Maintenance of							
Real Property	\$2,432	\$2,104	\$1,932	\$3,899	\$3,295	\$-604	
Minor Construction Total	2,938	2,141	2,018	2,018	2,722	+704	
Maintenance of Real Property	\$5,370	\$4,245	\$3,950	\$5,917	\$6,017	+100	

Activ	vity Grou	p: Maintenance of Real Property (cont'd	<u>)</u>						
B. <u>I</u>	B. Reconciliation of Increases and Decreases								
	1. FY	1985 Current Estimate			\$5,917				
	2. Pri	cing Adjustments			69				
	Α.	Stock Fund 1) Non-fuel		(-29)					
	В.	Industrial Fund Rates		(-53)					
	C.	Other Pricing Adjustments		(151)					
3.	Program	Increases			623				
	A. Oth	er Program Growth in FY 1986		(623)					
	1)	Minor Construction: Increase provides for minor construction for the following projects: three (3) mobile maintenance van complet three (3) engine test stands, and		623					
4.	Program	Decreases			-592				
	A. Oth	er Program Decreases in FY 1986		(-592)					
	1)	Maintenance and Repair Real Property: Decreased facilities maintenance support at NAVAIR field activities (NAVWESA, NALC, NAEC, NAESU, NATSF and Solomon's Island).		-592					
5.	FY 1986	President's Budget Request			\$6,017				
III.	Perform	ance Criteria and Evaluation	FY 1984	FY 1985	FY 1986				
	Mainten Bac	ance of Real Property klog, Maintenance/Repair (\$000) Total Buildings (KSF)	9,744 2,171	10,236 2,171	10,729 2,171				
IV.	Personn	el Summary							

Not applicable

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group <u>Base Operations</u>
Budget Activity: 7 - Central Supply and Maintenance
Claimant: Chief of Naval Material (Naval Air Systems Command)

I. Description of Operations Financed.

Base Operations funds provide for utility operations, other engineering support, and morale, welfare and recreation support at Naval Air Systems Command (NAVAIR) field activities under each respective host-tenant agreement. The Naval Air Engineering Center (NAEC) is the only NAVAIR activity which does not operate under a tenant status. NAEC is a host activity for the entire Lakehurst, New Jersey Naval Base.

II. Financial Summary (Dollars in Thousands).

,	A. Sub-Activity B	reakout.					
				Y 1985		FY 1986	
			Budget	Appro-	Current	Budget	
		<u>FY 1984</u>	Request	priation	<u>Estimate</u>	Request	<u>Change</u>
	, Welfare and						
Recre	eation Activities	\$0	\$108	\$ 108	108	\$124	+16
Utility	y Operations	2,707	2,687	2,687	3,007	3,130	+123
Other E	Engineering						
Suppo	ort	1,936	1,597	1,474	1,658	1,629	-29
Base Co	ommunications	2,587	3,344	3,042	3,723	3,616	-107
							
Total,	, Base Operations	\$7,230	\$7,736	\$7,311	\$8,496	8,499	+3
(C. Reconciliation	of Increa	ses and Dec	creases			
1. F	FY 1985 Current Es	timate					\$8,496
2.	Pricing Adjustment	c					70
	A. Industrial Fun					(145)	,,
	3. Other Pricing		c			(215).	
	b. Other Fricing	najas tilleti t	3			(213).	
3.	Program Increases						187
ı	A. Other Program 1) Morale Wel			Activities:		(21)	

- Increase to fund cost increases in support of military child care facilities.
- 2) Utility Operations: To finance increased costs for operating sewage plants and increased heat and water usage at at field activities.

Program Decreases 5.

-254

(166)

Activity Group: Base Operations

- A. Other Program Decreases in FY 1986
 - 1. Base Communications:
 Decreased level of telecommunications usage for headquarters and field activities.

(-254

6.	FY	1986	President's	Budget	Request
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8,499

III. Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
Base Operations (\$000)			
Operations of utilities	2,707	3,007	3,130
Total energy consumed (MBTU's)	27,422	27,206	27,590
Total non-energy consumed (K Gals)	29,729	22,725	22,988
Base Communications (\$000)	2,587	3,723	3,616
Number of Instruments	5,159	5,225	5,268
Number of Mainlines	2,364	2,434	2,459
Daily Average Message Traffic	2,176	2,203	2,216
Personnel Operations (\$000)	0	108	124
Morale, Welfare & Rec (\$000)	$\frac{0}{0}$	108 108	$\frac{124}{124}$
Ownership Operations (\$000)	1,936	1,658	1,629
Other Engineering Sup (\$000)	1.936	1,658	1,629

IV. Personnel Summary

Not applicable

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Ship Launched Weapons Rework & Maintenance

Budget Activity: 7 - Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

Description of Operations Financed

This activity group provides support for Navy weapons systems ashore and afloat. Various types of support include depot maintenance, repair, and refurbishment of surface-to-surface missiles and missile launchers, guns, and small and large caliber conventional ammunition. The activity group also funds maintenance, repair, and calibration of mines and various types of nuclear weapons. Requirements for these programs may vary each year due to variables such as ship overhaul schedule, age of equipment, and newer, more complex equipment entering the Fleet.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

	FY 1985						
	FY 1984	audget Request	APPRO- PRIATION	CURRENT ESTIMAT E	fy 1986 Budget Request	CHANGE	
Missile Systems Rework	13, 329	11,877	11,799	12,541	19,108	6,567	
Medium Range Msl Weapons Sys	1,428	4,532	3,893	3,795	4,801	1,006	
Long Range Msl Weapons Sys	3,928	5,871	5,483	5,386	5,715	329	
Gun Wpn Sys Overhaul & Spt	34,430	33,515	33,181	29.762	34,103	4, 341	
Vertical Launch System	1,331	3,435	3,211	2,365	3,975	1,610	
Mine Maintenance	2,354	2,615	2,594	4,104	4,196	92	
Ammunition	9,121	8,971	8,917	3,527	3,322	-5, 205	
Nuclear Weapons Support	1,853	1,842	1,833	1,874	2,272	398	
NATO Seasparrow	8	ه ف			4.922	4.922	
TOTAL, SHIP LAUNCH WPN RWK/MAINT	67,774	72,658	70,911	68, 354	82,414	14.060	

B. Reconciliation of Increases and Decreases

1.	FY 1985 Current	Estimate	\$68,354

2. Pricing Adjustments

1,663

Α.	Stock Fund	(-43)
	l) Non-Fuel	-43
В.	Industrial Fund Rates	(1,439)
C.	Other Pricing Adjustments	(267)

3. Program Increases

25,613

A. Other Program Growth in FY 1986

(25,613)

7,272

884

1) Missile Systems Rework
Rework of an additional 508 components for
SM-1 and SM-2 missiles. Particular dollar and
unit increases are as follows:
Electronics (SM-2 only) \$1,601 (123)
Ordnance 224 (142)
Rocket Motor Regrain 5,447 (243)
\$7,272

Requirements increase in FY 1986 based on an increase in population. This line supports 17 more ships in FY 1986 than in FY 1984. The additional funds in FY 1986 will prevent an increase in the FY 1985 projected backlog.

- 2) Medium Range Missile Systems
 Rework of an additional System Tracking and
 Illuminating Radar (STIR) antenna and a
 Combined Antenna System (CAS) Antenna,
 part of the FFG-7 Class MK 92 fire control
 system which requires overhaul every four years.
- 3) Long Range Missile Systems 2,730 Increase supports rework of one AN/SPG-55B radar battery (2,250) not previously required and increase in number of long lead mandatory replacement parts for future refurbishments from two to four sets (480).
- 4) Gun Weapon System Overhaul 7,032 Increase of two MK 86 overhauls (1,270). In FY 1986 10 complete CIWS systems will be overhauled for the first time (5,112). Increase of workload toward establishing a CIWS depot overhaul facility at NOS Louisville (650).

Activity	Group: Ship Launched Weapons Rework and Mainter	nance (cont'd)
B. Recor	nciliation of Increases and Decreases (cont'd)	
	5) Vertical Launch System Increase of 43 VLS canisters tested or repaired	2,433 d.
	6) Nuclear Weapons Support Increase will support additional limited life component exchanges and related work to be performed on ASW, Tomahawk and ground-delivered nuclear weapons. Ready for issue status will increase from 85% to 96%.	340
	7) NATO SEASPARROW This new program will refurbish sub-systems of this point defense system, which is installed of CV/CVN, DDG, and AOE ship classes. Some of the equipments have been operational for over 10 years without overhaul.	on ese
4. Pro	ogram Decreases	-13,216
A.	Other Program Decreases	(-13,216)
	1) Missile Systems Rework Rework of 103 fewer UHF Telemetry, SM-1 electronic, and Terrier components.	-1,006
	2) Long Range Missile Systems Decreases include MK 10 Loader Power Drive refurbishments (-1,294) and reduction of other refurbishments/repair (-1,200).	-2,494
	3) Gun Weapon System Overhaul Two fewer 5"/54 caliber guns are planned for replacement (-2,358), Decrease in other gun related equipment overhauls, including 52 fewer radar antenna scanners and 21 fewer loader assembly improvements for 3" 50 caliber guns (-1,035).	-3,393 r
	4) Vertical Launch System	- 907

VLS will be completed. 5) Mine Maintenance

-6

-5,410

6) Ammunition Reduced funding will decrease asset readiness to 68% for selected service rounds and 36% for selected training rounds. In addition, maintenance capability in coastal shore activities will be reduced.

In FY 1985, establishment of depot facility for

5. FY 1986 President's Budget Request

\$82,414

III. Performance Criteria and Evaluation

A. SURFACE WARFARE SYSTEMS

1. Missile Systems Rework

The program provides factory level renovation and repair of missile airframe, electronics, ordnance and rocket motor propulsion. This repair is required to correct in-service wear, damage, functional failure, and deteriorated sub-assemblies to maintain asset readiness at the CNO Objective (86 percent). Electronics are contractor maintained items. Ordnance, rocket motors, and handling equipment are maintained at Naval Ordnance facilities.

		1984 Units*	\$ FY	FY 1985 \$ Units*		1986 Units*
Total Funding	13,329	1,785	12,541	1,801	19,108	2,206
,						
TERRIER	959	40	645	26	150	10
TARTAR	0	0	0	0	0	0
STD MSL-1	11,112	1,625	8,000	1,389**	12,956	1,658**
STD MSL-2	524	90	2,728	341**	4,834	494**
UHF Telemetry	734	30	1,168	45	1,168	44

^{*} Units are the number of major components receiving depot maintenance.

Number of ships supported are as follows:

	FY 1984	FY 1985	FY 1986
Extended Range Missile Combatants (CG,CGN,DDG)	31	31	31
Medium Range Missile Combatants (CG,CGN,DDG,FFG)	78	85	95
Mobile Logistics Force (AOE,AE,AOR,AO)	27	27	27

** Unit costs increase due to the mix of components reworked each year.

Rocket motor regrain is required to ensure proper burn time and
maintain the accuracy of the missiles. The breakout of these particular
costs is as follows:

Missile Missile	Components	FY 1	1985 Juits		1986 Units
STD MSL-1	Electronics Ordnance Rocket Motor Regrain	7,506 494 0 8,000	831 558 -	7,296 654 5,006	745 694 219
STD MSL-2	Electronics Ordnance Rocket Motor Regrain	1,296 1,432 0	108 233	2,897 1,496 441	231 239 24
		$7.09^{\frac{2,728}{3}}$	341	4,834	494

III. Performance Criteria and Evaluation (cont'd)

2. Medium Range Missile Weapons System

Provides direct repair and rework of TARTAR weapon systems and components. Guided Missile Launching Systems (GMLS) are reworked in all years. FY 1985 marks the start of a major program to rework MK 92 fire control antennas (Combined Antenna System (CAS) and System Tracking and Illuminating Radar (STIR)) for FFG 7 class ships. The low-mix maintenance concept (less on-board maintenance) used on this class ship necessitates rework of these antennas every four years.

		FY 1984		FY 1985		986
Total Funding	1,428	mits 1	3,795	Units 8	\$ 4,801	Units 10
GMLS MK 11 SM-2 Directors & Radars (including AN/SPG-51D & MK 73)	1,428	1	2,600 375	2 4	2,717 392	2 4
MK 92 Antennas STIR CAS			370 450	1	764 928	2 2

3. Long Range Missile Weapons Systems

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Provides direct repair and refurbishment of TERRIER weapon systems, including MK 10 equipment, MK 5 launchers, weapon direction system equipment, and Guided Missile Launcher System (GMLS) MK 10 Loader Power Drive. The New Threat Upgrade (to counter the Backfire bomber threat) requires a new radar and director turnaround program.

Total Funding	FY 19 \$ 3,928	84 Units	FY 19 \$ 5,386	85 Units	FY 19 \$ 5,715	986 Units
1. MK 5 GMLS	2,100	3	577	1	0	
2. AN/SPG-55B						
Radars -		-		-	2,250	1
(# Batteries)					•	
Directors	845	1	926	1	974	1
(# of Batteries)						
Long Lead Parts						
(NSF)	145	1.5	261	2	752	4
3. MK 10 loader	0		2,475	11	1,176	5
Power Drive			•		·	
4. Other	838	40	1,147	55	563	55
(Component mix changes each v	ear)		-			

III. Performance Criteria and Evaluation (cont'd)

4. Gun Weapons System Overhaul & Support

The program supports gun weapon system replacement overhaul and other gun improvement programs, including repair of modules and entire equipments of the Close-in Weapon System (CIWS), antenna scanner overhaul, and development of in-house capability to overhaul both CIWS modules and MK86 GFCS modules of varying complexity. The establishment of in-house depot capability is currently scheduled for completion in FY 1987.

	FY 1984 \$ Units	FY 1985 \$ Units	FY 1986 \$ Units
Total	34,430	29,762	34,103
1. Gun Wpn Sys. Replacement	16,447 34	18,507 32	16,593 30
2. MK 86 Overhaul & Upgrade	3,726 6	3,670 5	5,029 7
3. CIWS Overhau1	8,132 4,334	500 3*	5,634 10
4. CIWS Depot Establishment	4,079 55WY	2,771 35.2	WY 3,487 43.3WY
5. Other Depot** Maintenance	2,046 210	4,314 422	3,360 349

^{*} In FY 1985, limited repair will be done on each of 3 systems. In FY 1986 10 systems will be fully overhauled.

5. Vertical Launch System

This program provides for planning, preparation, implementation, and support of depot level maintenance facilities for the Vertical Launching System in DD-963 class ships and prospectively in DDG-51 and CG-47 class ships. This work is also performed in support of VLS trainers. All elements of support are in place in FY 85.

Two distinct types of VLS related depots have been established. One type, the interim Depot Level Maintenance Facility (DLMF) overhauls failed repair parts and higher assemblies. The second type overhauls and refurbishes fired missile canisters.

	FY 1984	FY 1985	FY 1986	
Canisters repaired or tested	0	7	50	
Total Funding	\$1,331	\$2,365	\$3,975	
DMLF repair, Canister repair, inspect & issue	0	404	2,672	
Tech documentation	250	1,054	1,303	
& repair plans Depot establishment	1,081	907	0	

^{**} Units include major equipments and also the number of technical assistance actions.

III. Performance Criteria and Evaluation (cont'd)

B. UNDERSEA WARFARE SYSTEMS

1. Mine Depot Maintenance

The program supports conversion, overhaul, modification, repair, and inspection of mine components and test equipment with the goal of meeting the CNO established Asset Readiness Objective (ARO) of 92 percent.

Asset Readiness (%)	FY 1984 \$ Units 63	FY 1985 \$ Units 76	FY 1986 \$ Units 75
Total Funding	2,354	4,104	4,196
Component Screening & Overhaul	\$1,717 36,617	\$3,447 62,672	\$3,525 61,842
Test Equipment Repairs	637 392	657 396	671 388

^{*} Units are the number of components and equipments.

III. Performance Criteria and Evaluation (cont'd)

C. AMMUNITION SYSTEMS

1. Ammunition

Provides all depot maintenance actions to retain ammunition in a serviceable condition and to restore unserviceable ammunition. Classes maintained include: major and minor calibers of gun ammunition (including 16" shells), small arms and landing force ammunition, pyrotechnics and chemical ammunition, demolition explosives and Marine Corps ammunition in the custody of the Navy.

	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
Funding	9,121	8,527	3,322
Units Renovated*	498,415	2,541,88	3 459,290

*Unit cost varies from year to year due to the mix of ammunition repaired. In FY 1985 a substantial amount of small caliber ammunition is programmed for renovation.

2. Nuclear Weapons Support

Provides assembly, rework, modernization, repair, maintenance, calibration, limited life component exchange and related operations for Anti-Submarine Warfare (ASW), TOMAHAWK and ground-delivered nuclear weapons.

	FY 1984 \$ Units		\$ Units		FY 1986 \$ Units	
Total Funding	1,853	405	1,874		•	485
Ready for Issue status (objective is 100%)		100		85		96

Units = Number of limited life component exchanges.

III. Performance Criteria and Evaluation (cont'd)

3. NATO SEASPARROW Depot Maintenance

Provides the funding necessary to depot overhaul select sub-systems of the NATO SEASPARROW Surface Missile System (NSSMS) and Target Acquisition System. This refurbishment program is limited to those equipments which are susceptible to excessive wear and severe degradation due to harsh environments. The NSSMS Director, NSSMS Liquid Cooler, NSSMS low light level TV, and TAS Antennas require overhaul every 5 years: the NSSMS Launcher is on a 10 - year cycle. Operation of this program emphasizes the equipments' inspection, repair, refurbishment and testing.

Tot	al Funding	FY 1984 \$ Units 0	FY 1985 \$ Units 0	FY 1986 \$ Units \$4,922
1.	NSSMS GMLS Refurbishment	0	0	668/2
2.	NSSMS Director	0	0	1,300/10
3.	NSSMS Liquid Cooler/LLTV/ TAS Antenna/ Lch Guide	0	0	1,332/18
4.	Tech Repair Standards	0	0	1,622

IV. Personnel Summary N/A

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group: Budget Activity: Other Ship Systems Maintenance

7 - Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed.

Other Ship System Maintenace activity group funds the depot overhaul and maintenance of: shipboard electronic and HM&E equipment; calibration, salvage and underwater ship repair equipment; small arms; and shipboard computer programs. Requirements for these programs are not constant each year but vary according to factors such as ship overhaul schedules, age of equipment, and new, more complex equipment entering the Fleet.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985				
	PY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	PY 1986 BUDGET REQUEST	CHANGE	
Search Radar Maintenance	14,999	23,343	21,949	19,813	26, 364	6,551	
Coast Guard Support	6,827	9,628	9,551	8,524	8,578	54	
Small Arms Repair	1,807	1,862	1,845	1,803	1,909	106	
2F Cog Electronics	20,079	29,577	28,774	24,711	23,137	-1,574	
INDE/METCAL	12,668	10,702	10,641	9,692	12,538	2,846	
2F Cog Electronics ASW	21,720	31,170	28,968	30,543	35, 496	4,953	
Burface Mine Countermeasures	1,379	2,729	2,638	1,722	1,732	10	
Insphar	2,170	1,677	1,596	1,596	4,152	2,556	
Pollutn Abate Egp Maint	305	598	552	549	579	30	
Salvage Epuipment Maint	4,702	8,216	7,548	7,437	8,387	950	
Underwater Ship Husbandry	398	769	720	664	655	-9	
2S Cog Material H,M&E	30,247	39,192	38,842	36,531	41,866	5, 335	
Boat Rehab	994	986	976	972	1,621	49	
Inactive Ship Maint	8	601	402	722	75, 422	74,780	
AEGIS Systems Maint	3,514	11,176	11,074	9,774	11,693	1,319	
Ship Systems Software Maint	36,311	53,018	50,732	48, 186	54, 393	6.207	
TOTAL, OTHER SHIP SYSTEMS MAINT	158,120	225,238	216,808	203,239	307, 322	104,083	

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate	1.	FY	1985	Current	Estimate	
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\$203,239

2. Pricing Adjustments

1,579

A.	Civilian Personnel Compensation (Direct)	(-560)
	1) U.S. Direct Hire Pay Adjustment	-580
	2) Other Direct Pricing Adjustments	20
В.	Stock Fund	(-755)
	1) Non-Fuel	- 755
C.	Industrial Fund Rates	(-2,118)
D.	Other Pricing Adjustments	(5,012)

3. Program Increases

110,066

1,260

63

2,208

2,796

- A. Other Program Growth in FY 1986 (110,066)

 1) Search Radar 6,664

 Increased funding will overhaul an additional 131
 components on an additional 93 ships, which is required to reduce the FY 86 backlog. The additional units are needed as replacement units in operational ships and to provide pipeline units for emergency situations.
 - 2) Coast Guard
 Rework of an additional 3 MK 22 Mod 0 and one
 5"/38 gun mounts plus material support for gun
 weapon systems.
 - 3) Small Arms Repair
 The increase will provide for the repair
 of additional service weapons to meet
 the increased demand by Fleet and base
 commanders due to increasing terrorist
 threats.
 - 4) <u>2F Cog Electronics</u>
 Increased funding required for repair of an additional 59 AN/WSN-2/5 Inertial Measuring Units due to increased fleet population.
 - The additional funding will provide for engines on an additional 13 gas turbine ships to be calibrated (1,346). It will allow for 5,100 additional standards at NAVSEA activities to be calibrated (1,150). In addition, 5 more workyears will be funded to ensure interchangeability of components and assemblies of various weapon systems (300).

B. Reconciliation of Increases and Decreases (cont'd)

- 6) 2F Cog Electronics ASW
 Increase funds 1,923 additional transducer
 and hydrophone repairs (2,264), repair of 13
 additional pieces of other sonar equipment
 (2,601), and restoration of 6 additional
 masts and Electronic/Electrical adapters for
 type 18 periscopes to be restored (357).
- 7) INSPECWAR 2,607 Increased funding will provide maintenance for an additional Dry Deck Shelter and 2 additional swimmer delivery vehicles. Funds will also be used to develop modifications to the prototype DDS to incorporate SSN-608 interface requirements. Other increases will be used to correct deficiencies and recertify faulty breathing apparatus (MK XV/LAR V) and maintain equipment shelters.

5,222

919

- 8) Salvage Equipment Maintenance 630 Increase in funds supports maintenance of supplies, repair parts and consumables in all Emergency Ship Salvage Maintenance (ESSM) bases. The four existing bases have drawn down existing stock levels and the two new bases require stocking to reach operational levels.
- 9) 2S Cog Material H&M,E
 Funds depot maintenance for 19 more marine
 gas turbines, 19 diesel engines, 7 shafts
 and 5 more air compressors.
- 10) Inactive Ship Maintenance 74,669 Program has been recently restructured to fund a major effort to upgrade the condition of the ships in the inactive fleet starting in FY 86. Surveys and material upgrade will be performed in 3 hulls (\$32.8 million); material upgrade only on 3 hulls (\$35.3 million); surveys only on 6 hulls (\$2.0 million); and preservation upgrades on 2 hulls (\$4.6 million).
- 11) AEGIS System Maintenance Increase funds repair of 28 additional electronic chassis and 115 high power tubes required to support two additional AEGIS cruisers.

- B. Reconciliation of Increases and Decreases (cont'd)
 - 12) Ship Systems Software Maintenance

5,233

- a) FCDSSA SM (806)
 Funding provided for an additional 8 workyears to support the Joint Tactical Information Data Systems (248). Additional funding
 decreases the FY 1986 backlog of software
 maintenance of tactical data systems and
 provides support for two additional surface
 ship platforms (558).
- b) Sonar Systems SM (119) Increased funding provided to support the sonar system software of an additional 7 LAMPS MK III systems.
- c) Long Range SM (470)
 Increased funding supports transition of
 12 tactical and support computer programs
 from contractor design agents to the Navy
 computer maintenance facility. These programs support upgraded TERRIER Weapon
 Systems for ships with the CG/SM-2
 capability and initial installation of the
 SM-2 Block II (extended range) New Threat
 Upgrade Program.
- d) Medium Range SM (322)
 Increase will support maintenance of computer programs for the MK 92 fire control system on additional FFG-7's entering the fleet and transitioning from SCN to 0&M,N funding support.
- e) <u>AEGIS Ship Systems SM</u> (1,796) Increase funds 116 computer program equivalents, required to support two additional AEGIS cruisers
- f) Tactical Embedded Computer SM (1,720) In FY 1986 software maintenance is required for an additional 3,000 tactical embedded computers in the fleet. In addition, increased engineering support is required for approximately 9,900 in-service computers, periphals and displays associated with the AN/UYK-43 computers.

B. Reconciliation of Increases and Decreases (cont'd)

Other Program Decreases in FY 1986

13)	Other Adjustments				
	a) Surface Mine Countermeasures	(44)			
	b) Pollution Abatement	(7)			
	c) Underwater Ship Husbandry	(12)			
	d) Boat Rehabilitation	(47)			

4. Program Decreases

-7,562

(-7,562)

-279

-1,560

- 1) Coast Guard
 Realignment of the MK 92 ordalt installation
 program to the Fleet Modernization Program
 (-1,135). Rework of 12 fewer sonar equipments
 for high endurance cutters (-425).
 - 2) 2F COG Electronics -4,264
 Decreased funding for SINS MK-3 since they are being replaced by ESGN on SSN 637 Class submarines. Decreased funding required for SINS MK-2 since the fleet population is decreasing. In addition, repair or refurbishment of 46 fewer other navigation systems is planned in FY 1986.
 - 3) TMDE METCAL
 3,400 fewer calibrations will be performed for the Fleet.
 - 4) 2S COG Material H,M&E -1,459
 Perform depot maintenance on 1 fewer crane,
 2 fewer winches, 30 fewer line voltage
 regulators, 6 less MCM cables, 2 fewer motor
 generators and 8 salinity panels.

5. FY 1986 President's Budget Request

\$307,322

III. Performance Criteria and Evaluation

A. SURFACE WARFARE SYSTEMS

1. Search Radar Depot Maintenance

Provides depot maintenance of all Fleet search radar major components (2F Cog equipment) as well as maintenance of Navy-owned radars in Coast Guard vessels.

The 2F Cog restoration program provides major maintenance and repair of search radar equipment in support of Fleet operations. Equipment is removed from ships as necessary and shipped to the appropriate repair facility for restoration. Requirements are based on replacement commitments to specific ships during ROH/RAV periods and/or time usage factors. Restored material provides equipment for approximately twenty-five percent of the cost of new procurement. Coast Guard Support provides maintenance of Navy-owned search radar equipment on high and medium endurance Coast Guard cutters as required by Public Law 207. This allows for the ready consolidation of Coast Guard vessels with the Navy in time of a national emergency.

	FY 1984	FY 1985	Y 1986
Total Funding	14,999	19,813	26,364
2F Cog Restoration Coast Guard Radar	13,755 1,244	18,415 1,398	24,903 1,461
Leading Indicator Number of components/	FY 1984 Units/Ships	FY 1985 Units/Ship	FY 1986 B Units/Ships
Ships Serviced	342/168	487/262	618/355
2F Cog Carriers	17/7	21/8	25/11
Major Combatants	224/103	351/190	443/255
Auxiliaries	63/40	77/46	112/71
Coast Guard	38/18	38/18	38/18

Units - Number of radar components to be restored. (Each system has multiple components.)

III. Performance Criteria and Evaluation (cont'd)

2. Coast Guard Support - Depot Maintenance

Provides for the maintenance and overhaul support of Navy-owned weapons and ASW systems installed in U.S. Coast Guard ships.

Funding supports the following systems:

11	Cure and Pine Control Systems	FY 1984	FY 1985	FY 1986
1)	Guns and Fire Control Systems WMEC	4	2	2
	***************************************	•	_	2
	WHEC	4	5	6
2)	Sonars			
	WHEC	6	6	6

This represents number of hulls supported. Gun and fire control system quantities will vary by hull. Sonar equipment also varies.

WHEC = High Endurance Cutter (378 ft.)
WMEC = Medium Endurance Cutter (270 ft.)

		FY 19	FY 1984		FY 1985		86
Number of S	ystems		98		124		113
Total Fundi	ng	\$6,827		\$8,524		\$8,578	****
	ems Rehab. terial Spt.	3,116	10	3,387	11	4,793	15
2 Sonar Ma Overha	intenance/ ul	3,000	86	3,721	110	3,458	98
3 MK 92 0/	A Installation	375	2	1,085	3	0*	
4 Depot Su	pport	336	_	331	- .	327	

^{*} Transfer to BA 2 (Fleet Modernization Program)

3. Small Arms Repair

The program provides for total Navy intermediate and depot level maintenance for all Navy-owned weapons .50 caliber and below. Repair dollars are used to provide for allowance items for small arms to meet critical allowance needs.

III. Performance Criteria and Evaluation (cont'd)

Many of the repaired items will be utilized by forward site reserve units and Construction Battalions which require heavy small arms support and usage in the event of mobilization.

	FY 1984	FY 1985	FY 1986
Total Funding	\$1,807	\$1,803	\$1,909
No. Of Service Weapons Repaired	4,228	7,039	10,410
No. Of Marksmanship Weapons Repaired	283	1,280	1,006

B. ELECTRONIC SYSTEMS

1. 2F Cog Electronics

This program provides for refurbishment of the Navy Tactical Data System (NTDS) and navigational systems. Periscope and submarine communications antenna refurbishment has transferred to other programs.

		Units		Units		Units	
Total	20,079	:	24,711	23	3,137		

FY 1984

FY 1985

FY 1986

a. NTDS - Supports requirement to extend useful lifetime of ten year old equipment by an additional ten to fifteen years. Requirements are dictated by NTDS equipped ships in ROH and age of installed system.

Ship Suites*	12,330	6	10,447	6*	*10,457	7**
Memory Units/Components*	240	43	1,319	178	1,500	211
Subtotal	(12,570)	(49)	(11.766)	(184)	(11.957)	(218)

- * Unit costs should not be used for annual comparison because of different costs of different equipments being restored each year. Also, long lead funding and NTDS program/support funding are included in the ship suites lines; however, they are not reflected in the number of units.
- ** In FY 1985, funding will provide refurbishment of only selected equipments in 5 ship suites. In FY 1986, funding will provide refurbishment of 6 partial and 1 Complete NTDS Suite.
- b. Navigation Maintains operational readiness of inertial navigation and stabilized gyrocompass systems on board surface combatants and submarines and depth detectors on SSNS and SSBNS. Requirements are based on demand history and projected increases in fleet population.

AN/WSN-2/5	Inertial							
Measuring	Units*		1,436	33	3,731	68	6,100	127
SINS MK-3*			4,484	254	5,992	311	3,858	221
SINS MK-2*			934	49	1,293	60	298	17
Other Nav.	& Inter.	Com.*	655	76	1,929	72	924	26
Subtotal			(7,509)	(412)	(12.945)	(511)	(11.180)	(391)

^{*} Unit costs should not be used for annual comparison because of different costs of different equipments being restored each year.

III. Performance Criteria and Evaluation (cont'd)

2. Test, Measurement and Diagnostic Equipment/Metrology Calibration (TMDE/METCAL)

Identifies electronic test equipment requirements for monitoring and maintaining the performance level of systems/equipments and establishes calibration support required to maintain mechanical and ordnance TMDE. TMDE is any device which measures, calibrates, gages, tests, inspects, monitors, diagnoses or otherwise examines the operating or physical characteristics of a system/equipment or materials/supplies. Depot maintenance supports (1) calibration of all mechanical and ordnance calibration standards; (2) calibration of fleet mechanical and ordnance TMDE (including gas turbine ship support) which is beyond the capability/capacity of fleet calibration activities; and (3) maintenance of interface gages and master tooling for the interchangeability of components and assemblies of weapon systems.

	***	FY 1984	Units	=			
	W/Y	Calibration*	No. of Ships	(\$)			
Fleet Calibration Overflow		39,100		3,987			
Gas Turbine Ship Support Standards Calibration Special Interface Gage Prog	9	19,400	58	4,151 3,655 <u>875</u>			
Total Financed Program				12,668			
		FY 1985	Units				
	2501	14 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	**************************************	=			
	W/Y	Calibration*	No. of Ships	<u>(\$)</u>			
Fleet Calibration Overflow		34,700	40	4,161			
Gas Turbine Ship Support Standards Calibration Special Interface Gage Prog	6	10,900	42	2,763 2,182 <u>586</u>			
Total Financed Program				9,692			
		FY 1986 Units					
	W/Y	Calibration*	No. of Ships	<u>(\$)</u>			
Fleet Calibration Overflow		31,300		4,061			
Gas Turbine Ship Support Standards Calibration Special Interface Gage Prog	11	16,000	55	4,228 3,349 900			
Total Financed Program				\$12,538			

^{*} Calibration is not a uniform workload standard. A calibration may take from .25 workhours to over 80 workhours. Therefore, there does not exist a direct relationship between dollars and calibration.

III. Performance Criteria and Evaluation (cont'd)

C. UNDERSEA WARFARE SYSTEMS

1. 2F Cog Electronics - ASW

The program supports repair/restoration of 2F Cog Undersea Warfare Equipment such as sonar systems, depth sounders, acoustic countermeasures, periscopes, and undersea communication systems installed or to be installed in attack submarines, ballistic missile submarines, major surface combatants, and support ships. Restoration repair is performed at Naval Shipyard transducer repair facilities, NAVSEA field activities, and by various contractors.

Program requirements are based on quantities of installed equipment, the age of equipment, the cycle time required to repair items, the position of the installed equipment on the ship, issue rates of equipment to the fleet and emergent fleet problems.

Transducers, hydrophones, scanning switches and domes are major components of a sonar system.

- a. Transducers receive and send signals and are used on active systems.
- b. Hydrophones, used on passive systems, only receive signals.
- c. Scanning switches are electro-mechanical switches made primarily of silver, which is necessary for a sonar system to process audio and visual signals.
- d. Domes protect the electronics of sonar systems from physical damage.
- e. "Sonar equipment" designates various other components of sonar systems that are refurbished with program funds.

III. Performance Criteria and Evaluation (cont'd)

	FY	1984	FY	1985	FY 198	<u> 36</u>
Ships Supported						
(ROHs & SRAs)		126		159	167	7
SSBNS		6		4	2	-
SSNS		25		31	35	
Surface Combatants (ASW & AAW)		80		98	106	
Support Ships		15		26	24	+
	FY	1984	FY	1985	FY 198	36
	\$	Units	\$	Units	\$ Uni	ts
Total Funding	21,720	8,281	30,543	10,759	35,496	12,701
SSBN						
Transducers &						
Hydrophones	487	371	506	370	583	427
Sonar Equipment						
(In House)	975	50	789	37	790	39
(Commercial)	362	12		11		12
Periscopes	519	47	241	27	292	28
SSN/ASW/AAW Ships						
Transducers						
and Hydrophones	8,125	6,983		9,385	13,107	11,268
Scanning Switches	1,543	72	3,359		3,320	194
Domes	228	24	236	25	237	24
Sonar Equipment*						
(In-House)	2,595	147	•		3,475	
(Commercial)	3,966	111			10,630	133
Periscopes	2,107	43	1,458	24	1,764	29
Support Ships						
Transducers &						
Hydrophones	539	411	559	412	559	395
Commer. Sonar						
Equipment	274	10	285	9	285	9

^{*}Unit costs vary due to a different mix of equipment overhauled each year.

2. Surface Mine Countermeasures

Provides depot level and intermediate maintenance of in-service mine countermeasures systems, hardware, equipment, and material for minesweeping, mine hunting, mine neutralization, and mine countermeasure components.

	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
Total	1,379	1,722	1,732

III. Performance Criteria and Evaluation (cont'd)

		FY 1984		1985		Y 1986
Depot Maintenance *	\$	Unit	в \$	Unit	s \$	Units
Mine Hunting Systems	25	10	264	13	276	18
Mine Counter- measure Systems	40	24	95	35	92	42
Mine Neutrali~ zation Systems	30	18	137	33	139	41
Intermediate* Maintenance						
Mine Hunting Systems	311	24	368	23	472	23
Countermeasures Support Maintenance	34	50	284	60	273	67
Mine Neutralization Maintenance	158	17	574	29	480	38

^{*} Units are the number of systems maintained.

	<u>FY 1</u>	984 Units	FY 1985 Units	FY 1986 \$ Units
Maintenance Support** Mine Hunting Maintenance	227	3		~~
Countermeasures System Maintenance	529	7		
Neutralization System Maintenance	25	5		

^{**} Transferred to Mine Maintenance Support beginning FY85.

D. OCEAN ENGINEERING SYSTEMS

1. Inshore Special Warfare Equipment Depot Maintenance

Provides funds for the inspection, testing, repair, and alteration of Swimmer Delivery Vehicles (SDV) and Dry Deck Shelters (DDS), underwater Breathing Apparatus, Equipment Shelters, and installation of communication equipment.

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$ 2,170	\$ 1,596	\$4,152

III. Performance Criteria and Evaluation (cont'd)

Eff	orts funded:	FY 1984 \$ Units	FY 1985 \$ Uni	FY 1986 \$ Units
1.	Maintenance of SDV's (No. of Vehicles)	\$ 906	\$1,096	\$1,232 23 25
2.	Maintenance of DDS's (No. of Shelters) Operational Cycles Number of Submarines Configured	264	500	2,085 1 2 2 6 1 3
3.	Breathing Apparatus (No. of MK XV/LARV)	-	-	614 540
4. 5.	Equipment Shelters MIL VAN Equipment Installation	- 1,000 2 var	- ns	221 12

2. Pollution Abatement Equipment Depot Maintenance

This program overhauls, repairs, and maintains the Navy's entire inventory of open-sea pollution abatement equipment (skimmers, pumps, booms, boats, etc.), located at two continental United States Emergency Ship Salvage Material (ESSM) Bases.

Total Funding (\$000)	\$ \$ \$305	1984 Units	<u>FY</u> \$ \$549	1985 Units	\$ \$ \$579	1986 Units
1) Number of equip repairs	262	275	503	375	530	370
2) Number of equip pieces inventoried	43	750	46	750	49	750

3. Salvage Equipment Depot Maintenance

Program repairs, overhauls, and maintains eighty percent (80%) of the Navy salvage equipment inventory (winches, compressors, pumps, generators, welding machines, etc.) located at six Emergency Ship Salvage Material (ESSM) bases worldwide. Program also funds the repair, maintenance, and overhaul of the Navy's two unmanned submersible vehicles (Deep Drone on CURV II), which are utilized for ship and aircraft salvage, special search, and pollution abatement missions.

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$4,702	\$7,437	\$8,387

III. Performance Criteria and Evaluation (cont'd)

	Units	<u>Units</u>	Units
1) Number of Equip. repairs	2,100	3,500	3,504
2) Number of equip pieces inventoried	10,000	10,000	10,000
3) Number of vehicle repairs	14	18	18
4) Number of operational ESSM Bases	4	4	6

4. Underwater Ship Husbandry

Program provides for modifying existing tools to underwater usage, and developing techniques and procedures for the underwater accomplishment of routine hull maintenance. Program emphasis is on the development of underwater techniques that do not require drydock time and avoid associated costs, which may range from \$150K (FF Class Ships) to \$300K (CVN's). Actual work is performed on an emergent requirement basis as procedures, techniques, and tools are perfected.

Program provides for the updating of work and training manuals, and the conduct of training exercises for various fleet activities in new techniques and procedures.

Total Funding (\$000)	FY	1984 398		1985 664		1986 655
	\$	Units	\$	Units	\$	Units
 Number of equipment modifications 	152	1	115	1		-
2) Number of techniques and procedures developed	-	-	410	2	598	3
3) Number of training exercises conducted	170	4	-		-	-
4) Number of manuals up-	76	1	139	1.5	57	.5

E. 2S COG ELECTRONICS - HM&E

Provides for repair/refurbishment of equipments such as propellers, shafts, main feed pumps, generators and gas turbine engines for the operating fleet and ship overhauls. Requirements are driven by fleet maintenance, CASREPT demands and emergent overhaul requirements as influenced by advanced age of components. Program will enhance capabilities to resolve CASREPTS, meet overhaul schedules, and deployments. Units equate to pieces of equipment repaired.

III. Performance Criteria and Evaluation (cont'd)

Items of Repair	\$ <u>F</u>	V 1984 Units	\$ ^I	Y 1985 Units	_	Vnits
Total Funding	30,247	389	36,531	479	41,866	480
INPUT/OUTPUT TABLE	2482A2A	:=teese:				******
Hull Equipment	1,200	26	5,175	53	4,000	50
Propulsion Equipment	21,900	190	23,456	200	29,766	245
Auxiliary Equipment	5,547	60	6,200	40	6,600	45
Electrical Equipment	1,600	113	1,700	186	1,500	140

Unit cost should not be used for annual comparisons because of the vastly different sizes, types, condition and mix of equipments in each category.

F. BOAT REHABILITATION

Provide boats and landing craft, either new or repaired to replace those that are no longer economically repairable and to fill new allowances.

Approximately 3,500 boats are in service ranging from 14 feet to 165 feet.

	FY 1984	FY 1985	FY 1986
Total Funding	\$994	\$972	\$1,021
Number of boats rehabilitated/issued	114	57	86
1. Issued	\$193	\$110	\$195
2. Rehabilitated	\$801	\$862	\$826

G. INACTIVE SHIP MAINTENANCE SUPPORT

This program will upgrade ships in the inactive fleet to a condition which will allow them to be available for timely replacement of wartime fleet attrition. Currently, if a national emergency were to arise, the reserve fleet would take too long to reactivate.

The program takes place in three main steps; Survey, Material Upgrade, and Preservation upgrade. During the Survey, the ship is opened up and inspected to determine the condition of the ship and its equipment. In Material Upgrade, which is based on information gained during the survey, bottom hull maintenance is performed (such as drydocking, blasting, painting, etc. of the hull). A Material Upgrade is followed by a Preservation Upgrade. Preservation Upgrade involves efforts such as replacing lubricants, renewing seals on hull openings, and applying preservatives to equipment. These Preservation efforts are designed to keep deterioration of stored ships to a minimum.

III. Performance Criteria and Evaluation (cont'd)

In order to meet the material upgrade schedule, surveys must commence four to seven months prior to start of a material upgrade. Lead time is required for completion of surveys and development of upgrade specifications. The schedule below constitutes the prioritized plan to upgrade the material condition and preservation of the inactive fleet.

The costs cited below are for minimum upgrades and are estimated based on previous or similar work done on similar ships.

	FY 1984	FY 1985	FY 1986
TOTAL FUNDING	-	\$722 [*]	\$75,422
Funding Subtotals			
LSD 29		400	7,200
DD 941		300	22,122
AO 51		22	6.700 . ,
LST 1173			7,300 $\frac{1}{2}$ / 7,800 $\frac{2}{2}$ /
LSD 31			7,800 $\frac{27}{3}$
DD 940			$17,700 \stackrel{2}{=}'$
LST 1177			300
DD 937			400
DD 931			400
DD 951			400
DD 942			400
AFT 113			100 2/
CVS 12			$2,300 \frac{37}{37}$
CVA 31			$2,300^{-3/}$

^{*} In FY 1985 funding provides for surveys and planning only.

In the event of mobilization, each of the upgraded ships could be reactivated in 45 days. Without the upgrade, it would take 5 months to reactivate LSDs and LSTs, 6 months for DDs, 26 months for CVSs and 29 months for CVAs.

^{1/} Includes 300 for Surveys and Planning.

^{2/} Includes 400 for Survey and Planning.

^{3/} Provides funding for Preservation Upgrade only.

III. Performance Criteria and Evaluation (cont'd)

H. AEGIS SYSTEM MAINTENANCE

AEGIS System Maintenance covers depot repair of inoperative AEGIS Combat System electronic components and high power tubes. Repair of electronic components such as power supplies, printed circuit boards and electronic chassis is accomplished at the depot operated by RCA, Moorestown, New Jersey. Repair of power tubes including cross-field amplifiers, 10KW traveling wave tubes, 40 watt tubes and continuous wave illuminator tubes is conducted at the Naval Weapons Support Center (NWSC), Crane, Indiana. Reclamation of failed, but repairable tubes and electronic components is cost effective in that unit repair costs are only 50% of new procurement costs and the repair turn-around time is less than 60% of the procurement lead time required for new items. The significant increase in the FY 85 request reflects the requirement for greater capacity to handle repair backlog and increasing AEGIS cruiser force levels.

		FY 1984 \$	FY 1985 \$	FY 1986 \$
Tot	al Funding	3,514	9,774	11,093
		FY 1984 \$ Units	FY 1985 \$ Units	FY 1986 \$ Units
1.	RCA Moorestown/Elec. Components Repaired	3,189/811	8,698/2,470	9,185/2,498
2.	NSWC Crane/Tubes	325/71	1,076/185	1,908/300

III. Performance Criteria and Evaluation (cont'd)

I. SHIP SYSTEMS SOFTWARE MAINTENANCE

Ship Systems Software funds the maintenance of complex computer programs for specific shipboard weapon and command and control systems.

	FY 1984	FY 1985	FY 1986
Total Funding	\$36,311	\$48,186	\$54,393

Specific maintenance program descriptions are as follows:

1. FCDSSA Software Maintenance

Provides for the planning, designing, producing, testing, and delivery of updated tactical computer programs and associated documentation for tactical command and control systems on surface combatants and selected aircraft. In addition, this program provides technical assistance and computer programs to shore establishments and supports communication systems, satellite systems, and navigation systems.

	FY 19		
	\$	Units \$ U	nits \$ Units
FCDSSA	\$21,193	\$20,686	\$21,357
Efforts Funded			
1. Surface Tac. Data Sys	\$7,685	\$7,357	\$7,786
(No. of Ships Supported)			147 149
2. Air Tac. Data Sys.	\$1,322	\$1,201	\$1,340
(No. of Aircraft Supported)		93	93 93
3. Spt. Software, Commun.	\$1,285	\$12	\$12
& Tac. Intelligence			
Systems			
4. Facility Requirements,	\$10,901	\$12,116	\$12,219
Maintenance and General			
Costs			
A. Computer Center Operations/Maintenance	5,465	5,839	5,910.
B. Utilities and Plant Maintenance	2,687	3,199	3,180
C. Management and Administration	2,749	3,078	3,129

2. Sonar Systems Software Maintenance

This program maintains computer programs for all components of the LAMPS MK III integrated aircraft/shipboard weapons system.

Total Funding	FY 1°84 \$ 2,904	FY 1985 \$ 2,968	\$ 3,215
1. SH-60B Software Maint.	\$88/ 6	\$606/21	\$800/28
(No. of Programs Maintained)	\$007 b	\$606/21	\$800726

III. Performance Criteria and Evaluation (cont'd)

2.	AN/SQQ-28 Software Maint.	1,743/ 6	1,632/21	1,768/28
	(No. of Programs Maintained)			
3.	LAMPS System Level Software	900/6	600/21	500/28
	& Configuration Support			
	(No. of Program Maintained)			
4.	SH-60B Software Maint. for	173/ 6	130/21	147/28
	Simulatore			

3. Long Range Software Maintenance

Provides problem analysis, coding, proofing and system checkout for shipboard operational computer programs for the Terrier missile systems. The computer programs control all switchboard defense systems such as the launching system, fire control system, and radar detecting tracking system to provide quick reaction control. These programs are constantly updated to reflect upgraded Terrier system capability such as the SM-2 extended range missile, part of the new threat upgrade (NTU) program to combat the Backfire bomber threat.

	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units*	\$ Units*
Long Range Software	1,323 85	1,810 89	2,323 101
Maintenance			

^{*} Programs Maintained

4. Medium Range Software Maintenance

Tactical computer program maintenance provides maintenance and modification to operational computer programs and the auxiliary programs used to support and test the operational programs. Maintenance is performed at the computer program facility, Port Hueneme, CA.

	FY 1984	FY 1985	FY 1986
Medium Range Software	•	\$ Units 1,710 83	•
Maintonanco	•	-	•

5. AEGIS Ship Systems Tactical Computer Program Maintenance

AEGIS Ship System Software Maintenance is conducted at the AEGIS Computer Center (ACC), Dahlgren, VA. The ACC contains major AEGIS Combat Systems equipments capable of emulating shipboard operations. AEGIS System Software Maintenance provides for (1) Computer Program Production Engineering, (2) Computer Program Maintenance, and (3) AEGIS Combat System Backfit and Modernization. Computer Program Production Engineering involves the receipt, verification, and validation of developmental computer programs. Computer Program Maintenance involves program certification prior to ship and training site delivery and subsequent resolution of problems associated with these computer programs. This requirement is driven by fleet and operational needs. AEGIS Combat System Backfit and Modernization includes all work to upgrade the modernization alterations that revise military or technical characteristics.

III. Performance Criteria and Evaluation (cont'd)

This is driven by state-of-the-art developments to meet emergent threats as well as ship availability and overhaul dates.

Total Funding	FY 1984 Units	FY 1985 \$ Units	FY 1986 \$ Units
AEGIS Ship System Software Maintenance/ Computer Program Equivalents Supported	8,126/343	9,870/438	12,090/554
Computer Program Production Engineering, Computer Program Deliveries	707/ 1	882/ 2	1,083/ 3
Computer Program Maintenance/ Computer Program Problem Resolutions	5,769/248	6,962/308	8,482/379
AEGIS Combat System Backfit & Modernization/Computer Program Modifications *Computer Program Equivalents (CPE) supcomputed from the following AEGIS functions	ported is an a	2,026/ 18 aggregate outpu	2,525/ 23 t measure

- Computer Program Production Engineering/Computer Program Deliveries
- Computer Program Maintenance/Computer Program Problem Resolution (CPPR)
- Computer Program Modifications/Computer Program Modifications

where: 1 Computer Program Delivery = 20 CPE

1 CPPR = 1 CPE

1 Computer Program Modification = 5 CPE

III. Performance Criteria and Evaluation (cont'd)

6. Tactical Embedded Computer Software Maintenance

Provides engineering support acquisition management, life cycle support, and configuration control of existing and future tactical embedded computer systems. Maintenance actions, which include lab review, new documentation, new tapes, and testing; vary in cost from \$2K to \$25K.

Total Funding		FY 1984 \$ 1,399	FY 1985 \$ 11,142	FY 1986 \$ 13,333
In-Service Engineering Agent No. AN/UYK-43(V) and AN/UYK-44(V) computers supported		\$0 ~	\$5,118 350	\$6,530 350
No. of In-Service computers, peripherals, displays		-		9,900
Software maintenance No. Fleet computers supported (in-service) No. Maintenance actions		\$1,399 2,134 390	\$6,024 7,000 1,400	\$6,803 10,000 1,210
IV. Personnel Summary (End Streng FY 1		FY 1985	FY 1986	
A. <u>Civilian</u>	200	<u>261</u>	275	
USDH	200	261	275	

DEPARTMENT OF THE NAVY OPERATIONS & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Procurement Operations

Budget Activity:

7 - Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed

Procurement operations provides for centralized procurement and contract administration services; and technical services in support of the design, acquisition, construction, overhaul, repair, and alteration of ships and shipboard weapons.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			PY 1985		PY 1986	
	FY 1984	BUDGET REQUEST	APPRO- PRIATI O N	CURRENT ESTIMAT E	BUDGET	CHANGE
Project Management Offices ASW Project Office AEGIS Ship Procurement Spt NAVPROS SUPSHIPS Shipbuilding Sched Office	34,339 2,593 4,820 9,879 148,540 1,889	33,823 2,659 5,861 10,229 148,500 2,164	33,628 2,659 5,791 10,141 146,384 2,116	35,701 2,716 5,487 11,059 152,172 2,116	33,966 2,651 6,021 11,700 152,055 2,127	-1,735 -65 534 641 -117
TOTAL, PROCUREMENT OPERATIONS	202,060	293,236	298,631	209, 251	208,520	-731

B. Reconciliation of Increases and Decreases

1.	FY 1985 Current Estimate		\$209,251
2.	Pricing Adjustments A. Civilian Personnel Compensation (Direct) 1) USDH Pay Adjustment 2) Other Direct Pricing Adjustment B. Industrial Fund C. Other Pricing Adjustment	(-4,905) -6,663 1,758 (-330) (483)	-4,752
3.	Functional Transfers A. Transfers in	(466)	466
	1) Inter-Appropriation - Amounts transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for the elimination of \$3 thousand investment threshold and adoption of central management criteria as the governing factor.	466	
4.	Program Increases		4,605
	A. Other Program Growth in FY 1986 1) Project Management Office	(4,605) 24	
	2) AEGIS Ship Procurement Support Increase provides additional support for CG-47 class (179) and the lead ship of the DDG-51 Class (531).	710	
	3) NAVPROS Increase of 1 workyear effort for Spare Part acquisition (29); 31 workyears of effort for contract adminstration services related to the procurement of material and services (890); provides additional support services (13).	932	
	4) Supervisor of Shipbuilding Increase provides support for a net addition of 50 workyears to accommodate the change in availability type workload (2,097); increase in travel for ship checks, sea trials, contract award receivers, SUPSHIP operations review team, and master ship repair reviews (99); increased time sharing costs and equipment maintenance by contract (214); additional equipment, furniture, consumable supplies and other support costs to support projected increase in end strength (450)	2,860	
	5) Shipbuilding Support Office Increased support for 6 additional acquisition studies (79),	79	

B. Reconciliation of Increases and Decreases (cont'd)

5. Program Decreases -1,050 A. Other Program Decreases in FY 1986 (-1,050) 1) Project Management Office -876 Reflects decrease of 11 workyears (-548); reduced travel (-48); decrease in the purchase of ADP equipment (-117); rental and maintenance cost (-126); and reduced purchase services and supplies (-37). 2) ASW Project Office -3

3) Supervisor of Shipbuilding -171 Decrease in rental requirements (-114) and reduced professional and management contractor support (-57).

6. FY 1986 President's Budget \$208,520

III. Performance Criteria and Evaluation

A. PROJECT MANAGEMENT OFFICES

1. Project Management Offices

Project Management Offices are responsible for integration and coordination of major ship and weapon system acquisition projects. Funding supports salaries, benefits, and administrative support costs for engineers and administrative personnel responsible for the planning, direction, design, development, and production for assigned programs.

Total Funding Workyears Major Acquisition Projects	FY 1984 \$34,339 728 26	FY 1985 \$35,701 749 27	FY 1986 \$33,966 738 27
Civilian Salaries	31,444	32,943	31,424
Travel	1,239	1,122	1,093
Printing and Reproduction	6	28	29
Equipment	594	1,007	831
ADP/Non-ADP	(466)	(985)	(784)
Furniture	(128)	(22)	(47)
Supplies	155	150	151
Purchased Services	585	335	317
Other .	316	116	121

2. ASW Project Office

Anti-Submarine Warfare Project Office provides civilian salaries and administrative support to coordinate anti-submarine warfare programs within the Naval Material Command.

	FY 1984		
Total Funding	2,593	2,716	2,651
Workyears	54	58	59

III. Performance Criteria and Evaluation (cont'd)

B. CONTRACT ADMINISTRATION

1. AEGIS Ship Procurement Support

AEGIS Ship procurement support complements SUPSHIP/NAVPRO/DCAS functions. Provision of technical representatives is in accordance with DOD Instruction 4105.64 which directs project managers to provide dedicated, technical oriented procurement representatives at prime contractor plants to perform quality assurance, system engineering, combat system integration and testing. The AEGIS Ship Procurement Support currently funds technical representatives at four sites: RCA Moorestown, ISD Pascagoula, GD Pomona, and BIW Bath. They have been a key ingredient in the success of AEGIS Ships. Starting in 1986, technical representatives are also programmed for the DDG 51 construction yards which are as yet unidentified. These sites represent only a fraction of the twenty-two primary production locations that support the AEGIS shipbuilding program. Typical functions performed include:

- Manufacturing and production surveillance and problem resolution
- Point of contact for Government Furnished Equipment
- Production and Test Plan review and acceptance
- Engineering design review
- Test evaluation and quality assurance
- Administrative services
- System Integration and problem resolution

	FY 1984	FY 1985	FY 1986
Total Funding: Number of ships under construction supported	\$4,820 11	\$5,487 13	\$6,021 15

Project Manager's Technical Representatives for AEGIS contracts are at the following sites:

	FY 1984	FY 1985	FY 1986
1. RCA, Moorestown, NJ	\$2,174	\$2,318	\$2,423
2. Ingalls Shipbldg, Pascagoula, MS	1,228	1,771	1,714
3. General Dynamics, Pomona, CA	284	280	, 271
4. Bath Iron Works, Bath, ME	1,134	1,118	1,082
5. DDG 51 yards	0	0	531

2. Naval Plant Representative Office (NAVPRO)

The four NAVPROs (Great Neck, NY; Laurel, Md; Minneapolis, Minn; Pomona, CA) administer Navy and other DOD contracts at weapon system manufacturers to ensure that private contractors conform to contractual requirements.

	PY 1984	FY 1985	PY 1986
Total Funding Workvears	9,879 298	11,059 350	11,700 382
Number of Contracts Administered	9,926	12,304	15,826

III. Performance Criteria and Evaluation (cont'd)

3. Supervisors of Shipbuilding

Provides salaries and associated administrative support costs for 16 Supervisors of Shipbuilding, Conversion, and Repair (SUPSHIPS). SUPSHIPS are responsible for ensuring that private contractors meet government specifications in the construction, repair and alteration of Navy ships by administering Navy and other Defense Department contracts at assigned private sector shipyards. This includes administration of shipbuilding, design, conversion and facility contracts; procuring and administering overhauls, repairs, alterations and inactivations performed on Navy ships under Master Ship Repair Contracts. Funding also supports the Industrial Management Office, Philadelphia which provides contract administration for ship overhauls and repairs in private yards in the Philadelphia area.

	FY 1984	FY 1985	FY 1986
Total Funding Total Workyears	\$148,540 4,217	\$152,172 4,167	\$152,055 4,217
Workload Summary (Direct Work Years)			
New Construction/Conversion	1,840	1,722	1,774
Post-Shakedown Availabilities	271	228	201
Regular Overhauls	725	895	687
Selected Restricted Avail-			
abilities/Phased Maintenance	636	879	1,098
Fixed Workload	745	443	457

The significant driver of workload in FY 85 and outyears is in ship repair vice new construction. Increased workyears for repair are predominantly in the areas of Selected Restricted Availabilities (SRA's) and Phased Maintenance Availabilities (PMA's). These are short, manpower intensive availabilities where a lot of industrial work is compressed into a short period of time.

The Workload Summary data are further detailed below. It accounts for the total number of ships under construction, in an ongoing availability (execution) status, or in in a pre-availability (planning) status. Thus, the effort required for new work is compared to the effort required to continue ongoing construction and availabilities that cross fiscal years. Accordingly, the total number of availabilities and ships in construction in any particular fiscal year may differ from that indicated by other programs because of the duration of construction or availability.

III. Performance Criteria and Evaluation (cont'd)

SUPSHIP WORKLOAD SUMMARY:

The total SUPSHIP workload is computed by profiling manpower requirements on an individual availability by availability basis (i.e., new construction PSA, ROH, SRA or Fixed Load). Each availability type has a particular manpower profile summarized on a month by month basis in computing SUPSHIP requirements. The Workload and Staffing Profile (WASP) system is complemented by the Workload Accounting System (WAS) which provides actual feedback data to the WASP. SUPSHIPs submit quarterly reports (starting in FY 1984) stating the actual manpower utilized for each availability. Based upon composite WAS inputs individual availability profiles may be modified (i.e. to reflect increased or decreased manpower requirements).

Workload requirements and staffing are calculated within the following categories:

1. New Construction (N/C) Pre-launch/Post-launch

N/C pre-launch data reflects the cumulative number of hulls (units) and the SUPSHIP manpower to administer the contract for each of those hulls prior to ship launch. SUPSHIP manpower application begins with the start of construction (normally 12-24 months after contract award). The pre-launch period is generally more than half of the ship construction duration; however, SUPSHIP manpower application during this period is less intense than later in the construction phase. In this phase, SUPSHIP approves Engineering and Quality Assurance (QA) procedures, orders Government Furnished Material (GFM) and spare parts, consents to subcontracts and approves other company procedures and schedules. During the N/C post-launch period which runs from launch until 4 months after ship delivery, SUPSHIP manpower requirements are proportionately very high. Efforts may involve ship testing, sea trials management, trial deficiency corrections, engineering changes, contract change negotiation, government furnished material ordering, spare parts management, etc.

2. Post Shakedown Availability (PSA) Planning/Execution

The PSA planning phase covers the period from 6 months before PSA start to PSA start. The SUPSHIP technically engineers and plans the work package, orders material, and formalizes the work package into a contract. The execution phase runs from PSA start until 3 months after PSA completion. During the PSA availability the SUPSHIP performs the normal contract administration functions: quality assurance, test and trials management, engineering change administration, material and spare parts management, change order negotiation, etc.

3. Regular Overhaul (ROH) Planning/Execution:

The ROH planning phase runs from 18 months prior to overhaul start to the start of overhaul. During this time the SUPSHIP plans all alteration and repair work, orders all government furnished material, develops the solicitation package, and normally awards the contract. The overhaul execution phase commences at overhaul start and runs through the guarantee and contract closeout period (4 months after overhaul departure and ship completion). The typical contract administration functions (as mentioned in item 2 above) are performed during the ROH availability period.

III. Performance Criteria and Evaluation (cont'd)

4. Selected Restricted Availability/Phased Maintenance Availability Planning/ Execution

The Selected Restricted Availability/Phased Maintenance Availability SRA/PMA planning phase runs from 12 months prior to availability start to availability start. The planning for an SRA is exactly the same as the planning for an ROH. The planning for PMA's is performed by the contractor with the SUPSHIP reviewing and approving the contractor is specification preparation work. The SUPSHIP also orders GFM and negotiates all changes. The SRA/PMA execution phase runs from ship arrival until 3 months after availability completion. The contract administration functions performed are all similar to those performed to administer an overhaul. It should be noted that a PMA requires more people for contract administration than that required by a normal SRA because PMA contracts are always cost plus award fee type contracts.

5. Fixed Load

Fixed load manpower is the number of people required to administer all Commercial Industrial Support (CIS) and Repair Availabilities and Technical Availabilities (RATA). CIS includes work performed by contractors that exceeds the local capacity/capability of ship's forces, tenders, repair ships, and Shore Intermediate Maintenance Activities (SIMA's). It consists of maintenance level work such as bilge/tank cleaning and repair or replacement of parts, components or assemblies removed from ships. RATA includes: restricted availabilities which are emergent unscheduled availabilities assigned for the accomplishment of specific items of work by an industrial activity with the ship present during which time the ship is rendered incapable of fully performing its assigned missions and tasks; and technical availabilities which are unscheduled availabilities for the accomplishment of specific items of work by a repair activity, during which the ship's ability to perform fully its assigned missions and tasks is not affected. For example, a ship needing one of its radios repaired can still be operational while that item is under repair at a contractor's facility. Additionally, numerous other amounts of manpower are included under this heading for planning shippard execution, new construction configuration control, facilities administration, personnel administration, and memorials administration.

III. Performance Criteria and Evaluation (cont'd)

SUPSHIP Manpower Requirements (Manyears) Summary

Direct Funded Only

	FY 84	FY 85	FY 86
New Construction	1,840	1,722	1,774
PSA	271	228	201
ROH	725	895	687
SRA/PMA	636	879	1098
Fixed Load	745	443	457
Total	4,217	4,167	4,217

SUPSHIP total requirements include the requirement for direct funded, reimbursable funded and FMS funded billets. The manpower requirements are increasing primarily to plan and execute the short, intense SRA/PMA workload. The number of new starts for these availabilities doubles from FY 84 to FY 86.

	FY 1984	FY 1985	FY 1986
	\$ Units*	\$ Units*	\$ Units*
Total Funding (\$000)	148,540	152,172	152,055
1. New Construction Pre-Launch Post-Launch	64,763 (141)	62,848 (124)	64,015 (109)
	111	95	75
	30	29	34
2. Post Shakedown Avail Planning Execution	9,507 (52)	8,369 (43)	7,299 (39)
	23	18	16
	29	25	23
3. Regular Overhauls Planning Execution	25,549 (132)	32,717 (127)	24,785 (107)
	88	56	44
	44	71	63
4. SRA/PMA Planning Execution	22,430 (223)	32,108 (281)	39,534 (395)
	151	173	239
	72	108	156
5. Fixed Load	26,291	16,130	16,422

^() Denotes Non-ADD

^{*} Units = number of hulls

III. Performance Criteria and Evaluation (cont'd)

C. SHIPBUILDING SUPPORT OFFICE

The NAVSEA Shipbuilding Support Office (NAVSHIPSO) supports the NAVSEA Acquisition and Logistics Directorate and all Ship Acquisition Project Managers (SHAPM's) by conducting advance planning, expediting the delivery of shipbuilding components and materials, and assisting in the acquisition and major repair source selections. This office also maintains the Naval Vessel Register and the Ship's Data Book for the Department of the Navy. This is a two-volume publication which contains the names, characteristics, assignments and disposition of all the Ships and Service Craft in the Active Fleet, Reserve Fleet, Inactive Fleet, MSC and the U.S. Army vessels.

		F	1984	FY	1985	FY	1986
Total Funding (\$000)		\$	\$1,889	\$	2,116	\$	2,127
Acquisitions supported New Construction Conversions			16 6	########	23 6		27 2
Studies in support of: Acquisition Supporting Operations Long Term Projections	\$.	\$ <u></u> 1,776	Jnits \$ 565 73	-	Units 515 79 12	\$1,996	Units 515 85 12
Travels to support source selections, program reviews, industrial plant capacity assessments, etc. (# of trips)		94	150	98	161	109	165
Printed Reports (Naval Vessel Register, Mfg. Lead Time Tabulations, etc.)		19	11	20	11	22	11
IV. Personnel Summary (End St	rength) FY 1984	FY	1985	FY 19	86		
A. Military	<u>513</u>	<u>573</u>	3	560			
Officer Enlisted	393 120	442 131		431 129			
B. Civilian	5,248	5,444	5	,579			
USDH	5,248	5,444	5	,579			

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Cor mand and Administration

Budget Activity:

7 - Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed:

This program provides salaries and administrative support for the personnel assigned to NAVSEA headquarters who provide technical direction and management for acquiring and supporting ships, weapons systems, and related equipment.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

		FY 1985			FY 1986	
	FY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	BUDGET REQUEST	CHANGE
Command & Administration	39,428	34,007	33,772	33,788	32,392	-1,396
TOTAL, Command & Admin	39,428	34,007	33,772	33,788	32,392	-1,396

Activity Group: Command and Administration (cont'd)

B. Reconciliation of Increases and Decreases

1.	FY 1985 Current Estimate		\$33,788
2.	Pricing Adjustments		- 713
	A. Civilian Personnel Compensation (Direct) 1) U.S. Direct Hire Pay Adjustment 2) Other Direct Pricing Adjustments B. Industrial Fund Rates	(-870) -1,033 163 (-7)	
	C. Other Pricing Adjustments	(164)	
3.	Program Increases		257
	A. Other Program Growth in FY 86 1) Increase of 3 workyears of effort (134); Increase in purchased services for higher building maintenance costs largely due to increased cost of contractual labor (114) and increased furniture (9).	(257)	
4.	Program Decreases		-940
	A. Other Program Decreases in FY 86 1) Decrease in rental and maintenance of ADP equipment (-485) due to purchase versus lease initiatives; Decrease in travel (-237); Decrease in printing and furniture requirements (-134); Decrease in supplies and other support costs requirements (-84).	(-940)	
5.	FY 1986 President's Budget Request		\$32,392

Activity Group: Command and Administration (cont'd)

III. Performance Criteria and Evaluation

Command and Administration

Provides salaries, benefits, and administrative support costs for Headquarters staff responsible for policy, planning, technical guidance, resource allocation, management and support of NAVSEA operations.

Total Funding (\$000) Workyears	FY 1984 \$39,428 943	FY 1985 \$33,788 768	FY 1986 \$32,392 771
Civilian Salaries	33,229	29,037	28,301
Travel	1,860	1,285	1,070
Printing and Reproduction	338	366	333
Equipment	2,264	1,835	1,353
ADP/Non-ADP	(1,823)	(1,713)	(1,217)
Furniture	(441)	(122)	(136)
Supplies	359	382	370
Purchased Services	977	460	580
Other	401	423	385

IV. Personnel Summary (End Strength)

		FY 1984	FY 1985	FY 1986
A.	Military E/S	<u>45</u>	44	<u>44</u>
	Officer Enlisted	32 13	34 10	34 10
В.	Civilian E/S	<u>787</u>	<u>782</u>	<u>787</u>
	USDH	787	782	787

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Field Operations

Budget Activity:

7 Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed

Field operations provides the salaries and operating costs for a variety of support functions at Naval shore activities. Typical support functions include design and development of computer software for shore activities, engineering and administrative services for major weapons systems and shipboard equipment, and overhaul planning.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			#W 100C			
	PY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	budget Request	CHANGE
Operational Support-Field	130,425	128,032	127,586	135,697	134,405	-1,292
NAVSEA Field Divisions	12,493	13,130	12,725	12,681	12, 399	-282
ICSTP	3,074	3,768	3,701	3,696	3,889	193
SEAADSO	7,456		0		. 0	0
PERA CV	3, 382	3,993	3,713	3,709	3,469	-240
PERA SS	7,398	7,482	7,298	7,262	8,898	1,636
PERA CRUDES	5,749	10,816	10,281	9.876	5,849	-4,621
PERA CSS/ASC	3,974	5,387	5,136	5,113	4.104	-1.609
TOTAL, FIELD OPERATIONS	173,951	172,608	170,360	178,028	173,013	-5,015

R.	Reconciliation	οf	Increases	and	Decreases
υ.	VECARCTTTACTOR	O.L	TIIC1 60060	and	Decreases

1.	FY 1985 Curr	ent Estimate			\$178,028
2.	Pricing Adju	stments			-3,466
	1) US D 2) Othe B. Industri	Personnel Compensation (irect Hire Pay Adjustment r Direct Pricing Adjustment al Fund Rates icing Adjustments	t ·	(-4,891) -5,193 302 (6) (1,419)	
3.	Functional P	rogram Transfers			-2,125
	a) Fund Fiel foll <u>BA l</u>	a-Appropriation Personnel and Training As s transfer into Operation d, amounting to 17 worky owing programs (940):	nal Support-	(978) 940	
		Intermed. Level Maint.	84		
	NAVE	TRY	70		
	BA 2		, •		
	Inte BA 7	rmed. Maint. Upgrade	114		
		Support Program	100		
		ial Training r-Appropriation	537	38	
	a) Fund Oper	Naval Air Test Center Res and two billets transfeational Support-Field fron NATC (38).	er into	30	
	B. Transfer	a Out		(-3,103)	
	1) Intr a)	a-Appropriation Surface Ship Maint. & Petoring Program (SSMPMS)	rf.	-3,103	
	Fund (BA2	s transfer from PERA CRU) (-3,021).	DES to SSMPMS		
		Travel Support s transfer from PERA SS).	to LANTFLT		
		CIVPERS Services s transfer from PERA CRU).	DES to LANTFLT		
4.	Program Inci	eases			3,666
	A. Other Pr	ogram Growth		(3,666)	

B. Reconciliation of Increases and Decreases (cont'd)

1) Operational Support-Field
Increase of 19 workyears of effort (includes
9 workyears for spare parts acquisition
initiatives and 10 workyears for the Surface
Ship Extended Operating Cycle Program (799);
realignment of the Navy Ship Model Program
and Beneficial Suggestion Awards Program to
Operational Support from Other Support Program,
Logistics Support Services Activity (SubActivity Group) (356); increase in office
equipment and supplies (52); increase in
purchased services and other support costs due
to increased maintenance costs resulting from an
increase in contractual labor (215); increase
in office automation support (320).

1,742

241

110

-3',090

- 2) NAVSEA Field Divisions
 Increase of 7 workyears at Naval Sea Centers
 for the Surface Ship Extended Operating Cycle
 Program.
- 3) ICSTF
 Provides for equipment maintenance and software support for 29 additional equipments.
- PERA SS
 Provides management and engineering support for submarine overhaul and Extended Operating Cycle (EOC) availability planning and test development support programs (303); management and engineering support for submarine alternations and maintenance programs (152); logistics and other technical support for submarine overhauls and EOC availability planning (987); 2 additional workyears of effort (72); and other operating expenses (59). Increase due to an additional 6 submarine maintenance availabilities.

5. Program Decreases

- A. Other Program Decreases

 1) Operational Support-Field
 Decrease in travel and printing.

 (-3,090)

 -71
 - 2) NAVSEA Field Divisions
 Reduces funds for purchase of services, such as maintenance and repair of buildings and communications.

B. Reconciliation of Increases and Decreases (cont'd)

Results in reduced PERA CV efforts including the modernization planning management Non-Standard Long Lead Time material procurement and Carrier Engineered Maintenance programs (-93); integrated maintenance management (-118); and material management programs (-43); reduces overhead effort by two workyears (-77).

4) PERA CRUDES -1,184 Decrease of 1 workyear related to overhead (-35); reduction to engineering services support (-1,149).

5) PERA CSS/ASC -1,113 Results in the reduction of overhaul planning (-413); engineering support (-127); ADP support (-75); baseline data management (-76); service craft modernization (-36); and test programs (-50); and reduced overhead costs (-336).

6. FY 1986 President's Budget Request

\$173,013

III. Performance Criteria and Evaluation

A. OPERATIONAL SUPPORT-FIELD

Provides basic salaries, benefits, and administrative support costs for personnel responsible for the management of ship and combat systems not assigned to designated project management offices. Tasks performed include contract administration, and material management coordination for ship and weapon system integration; acquisition policy and planning development; engineering and technical logistic support; and ship design and maintenance oversight.

Total Funding (\$000) Workyears	FY 1984 \$130,425 2,917	FY 1985 \$135,697 2,989	FY 1986 \$134,405 3,025
Civilian Salaries	118,229	126,773	124,289
Travel	3,924	2,499	2,496
Printing and Reproduction	428	488	484
Equipment	4,775	2,930	3,393
ADP/Non-ADP	(2,660)	(2,602)	(3,034)
Furniture	(2,115)	(328)	(359)
Supplies	821	619	681
Purchased Services	1,472	1,106	1,236
Other	776	1,282	1,826

Effective FY 1986, Navy Leased Quarters, Beneficial Suggestions awards and the Ship Model Program are transferred to Operational Support Field from Logistic Support Activities, Other Support Program subactivity groups.

III. Performance Criteria and Evaluation (cont'd)

B. NAVSEA FIELD DIVISIONS

AND BROKEN STREET STREET

Funds salaries and support costs of overhead personnel for the Naval Sea Support Centers and the Naval Sea Systems Command Logistics Support Engineering Activity (NAVSEALOGSUPENGACT). The Sea Centers provide technical services to the fleet, such as installation, support, operation, and maintenance of ship-board equipment and systems. NAVSEALOGSUPENGACT performs engineering and related functions associated with establishing and maintaining effective life-cycle supply support for hull, mechanical, electrical, and selected electronic equipments.

	FY 1984	FY 1985	FY-1986
Total Funding(\$000)	\$12,493	\$12,681	\$12,399
Total Workyeara	266	220	227

SEACENS			
Civilian Personnel Salaries	\$8,567	\$8,521	\$8,476
Other Purchase Services	842	1,084	1,339
Communications	576	600	545
Travel	355	372	384
Utilities and Rents	584	408	252
Supplies	343	341	325
Equipment	245	357	416
Transportation	8	0	0
Printing and Reproduction	70	77	84
Real Property Maintenance	903	921	578

III. Performance Criteria and Evaluation (cont'd)

C. INTEGRATED COMBAT SYSTEMS TEST PACILITIES

Provides support for integration testing and in-service engineering testing for multiple ship class combat systems computer programs.

Total Funding (\$000) Workyears	\$3,074 14	FY 1985 \$3,696 21	FY 1986 \$3,889 21
Efforts Funded			
 Test and Evaluation Computer Program Spt Equipment Installation Equipment Maintenance Facility Operations Management/Admin/Financial 	187 734 290 1,118 343 402	317 747 296 1,429 418 489	336 706 297 1,570 493 487

D. SEA AUTOMATED DATA SYSTEMS ACTIVITY (SEAADSA)

This program is consolidated with Logistics Support Activity group, and Data Support subactivity group in FY 1985.

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$7,456		
Workyears	191	-	_

Activity Group: Field Operations (cont'd)

III. Performance Criteria and Evaluation (cont'd)

E. PLANNING AND ENGINEERING FOR REPAIR AND ALTERATIONS (PERA)

Provides integrated planning for overhauls and for life cycle maintenance management of aircraft carriers, submarines, cruisers and destroyers, combat support ships, and amphibious and service craft. The primary functions of PERA's are long-range planning, engineering support, material support, standardization, and package integration.

1. PERA Aircraft Carrier	FY 1984	FY 1985	FY 1986
Total Funding (\$000) and Benefits	\$3,382 _	\$3,709 -	\$3,469 -
Expense Operating Budget Direct Funded Salaries (non-add) Workyears: Direct Number of Ship Availabilities	1,705 (968) 26 16	1,820 (891) 23 16	1,763 (805) 21 16
Efforts Funded:			
 Modernization Planning Management Integrated Maintenance 	425	679	553
Management 3. Material Management	347	379	372
Programs	252	152	138
4. ILS Program Support 5. Technical Support Studies	260 393	186 493	168 475
2. PERA Submarines	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$7,398	\$7,262	\$8,898
Expense Operating Budget Direct Funded Salaries	3,366	4,547	4,648
and Benefits (non-add)	(1,884)	(2,325)	(2,265)
Workyears: Direct Number of Submarine Availabilities	65 77	64 81	66 87

Activity Group: Field Operations (cont'd)

III. Performance Criteria and Evaluation (cont'd)

Efforts Funded:

1. Logistic & Other Tech Support	1,544	345	1,348
 Mgmt. & Engn. Spt. for Submarine ovh1 & EOC Avail. Planning & Test Development spt Programs* 	1,562	1,848	2,205
 Mgmt. & Engn. Spt. for Submarine Alterations & Maintenance Programs 	926	522	697

* Logistics and planning for EOC availabilities and preparation of work packages is done in the PERA SS line vice BA 2.

3. PERA Cruisers/Destroyers	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$5,749	\$9,870	\$5,849
Expense Operating Budget	3,518	3,842	4,389
Direct Funded Salaries and Benefits (non-add)	(2,236)	(2,245)	(2,172)
Work Years Direct	67	64	63
Number of Ship Availabilities	250	250	250

Efforts Funded:			
1. Engineering svc. Support	2,231	3,103	1,460
2. Engineered Operating Cycle	-0-	2,925*	0

^{*} This effort was transferred from BA-2 (DD-EOC program) in FY 85. Subsequently, this effort transferred to the Surface Ship Maintenance and Performance Monitoring Program (BA-2) effective FY 1986.

4. PERA Combat Support Ships/Amphibious and Service Craft

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$3,974	\$5,113	\$4,104
Expense Operating Budget Direct Funded Salaries and Benefits (non-add)	2,154	2,279	1,933
	(1,434)	(1,138)	(1,088)
Work Years: Direct	44	34	34
Number of Ship Availabilities	137	190	207

Activity Group: Field Operations (cont'd)

III. Performance Criteria and Evaluation (cont'd)

PERA Combat Support Ships/Amphibious and Service Craft (cont'd)

Efforts Funded:

1. Overhaul Planning	874	1,445	1,086
2. Engineering Support	291	454	347
3. ADP	237	369	304
4. Baseline Data and Management	200	283	217
5. Service Craft Modernization			
Program	91	113	87
6. Test Program	127	170	130

IV. Personnel Summary (End Strength)

		FY 1984	FY 1985	FY 1986
A.	Military	<u>678</u>	<u>721</u>	<u>708</u>
	Officer Enlisted	336 342	407 314	393 315
В.	Civilian	3,603	3,504	3,545
	USDH	3,603	3,504	3,545

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group: Budget Activity: Claimant: Logistics Support Activities
7 - Central Supply and Maintenance

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed.

Programs included in this activity group provide support to Fleet and shore station operations in such areas as:

- a. Technical documentation required for ship design and maintenance
- b. Ammunition movement, handling and disposal
- c. Safety of personnel and security of ships, shore stations, and sensitive weapons and material
- d. Equipment inventory control and accounting
- e. Management information systems and ADP support
- f. Underutilized capacity at ordnance stations
- g. Salvage operations and diving
- h. Inactivation of ships
- i. Other engineering and technical services in support of Fleet equipments, including surface missile systems and marine gas turbines.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985		nv 1006			
	PY 1984	Budget Request	APPRO- PRIATI ON	CURRENT ESTIMATE	PY 1986 BUDGET REQUEST	CHANGE		
Emergency Salvage	3,642	1,232	1,189	1,196	1,505	309		
Pollution Abatement	8	8	9	8	Ø	0		
Quality Evaluation Program	12,288	16,782	15,099	14,642	20,830	6,188		
Surface Warfare Journal	287	353	353	3 00	303	3		
Small Arms Management	2,529	1,864	1,850	2,297	2,607	310		
SMS Logistics & Tech Support	3,567	5,511	5, 393	4,950	5,723	773		
RSS&I	61,576	53,458	53,022	57,640	61,277	3,637		
Property Disposal of Ordnance	5,268	10,554	7,532	4,417	7,536	3,119		
Nuclear Weapons Safety/Secur	4,881	6,266	6,123	5,984	6,210	226		
Safety - General	3,366	3, 232	3,216	3,152	4,400	1,248		
NAVOSH Program	2, 237	1,953	1,946	1,916	2,374	458		
Radiation Control & Health	712	766	754	753	724	-29		
Sensitive Ordnance Security	11,814	12,779	12,560	12,507	13,005	498		
Snip Design Services	2,943	1,887	1,873	1,861	1,794	-67		
NAVSEA Material Support	1,591	2,805	2,756	1,950	2,895	945		
INSURV	1,701	638	633	1,231	1,177	-54		
M Maint & Material Mgmt	12,598	15,873	14,912	14,767	15,017	250		
Fed/Milt Stand & Specs	2, 251	2,751	2,736	2,527	5,944	3,417		
Energy Conservation	339	618	618	615	609	-6		
Marine Gas Turbines	9,069	11,963	11,684	11,011	15,203	4,192		
SNAP	12,583	16,528	16,296	16,025	13,585	-2,440		
PHM Logistic Support	5,057	5,077	5,072	4,744	10,657	5,913		
Standardization	298	399	380	344	408	64		
Acquistion Planning	1,389	1,719	1,552	2,273	2,405	132		
SAMIS	5,388	4,980	4,734	4,489	7,462	2,973		
Logistic Support Program	17,764	20,988	19,626	19,523	40,447	20,924		
Integrated Log Spt Tech Imprv	1,300	2,169	1,972	2,069	2,186	117		
Navy Diving Program	3,425	3,813	3,726	3,599	4,369	770		
Inactivation of Ships	20,193	5,136	5,047	4,632	62,184	57,552		
Shipyard Modernization Prog	11,962	10,656	10,532	10,352	42,257	31,905		
VAMOSC	623	614	574	561	652	91		
Data Support	1,976	4,711	4, 362	4,263	4,885	622		
Underutilized Plant Capacity	90,095	91,473	91,473	110,129	100,199	-9,930		
Other Support Prog Act	686	694	684	612	563			
TOTAL, LOGISTICS SUPPORT SERV	314, 398	329,152	313,019	327, 331	461,392	134,061		

B. Reconciliation of Increases and Decreases

items.

1.	FY 1985 Current Estimate	\$327,331
2,	Pricing Adjustments	8,402
	1) US Direct Hire Pay Adjustment -1 2) Other Direct Pricing Adjustments B. Stock Fund (
3.	Functional Program Transfers	26,091
	A. Transfers In 1) Intra-Appropriation a) Expense/Investment Criteria Revision - Amounts transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as governing factor. Shipyard Modernization 26,282 SAMIS 1,188	
	B. Transfers Out 1) Intra-Appropriation a) SMPP/MDPP/DART Funding is transferred to BA2 to the new Surface Ship Equipment Maintenance Monitoring Systems line from the Integrated Logistic Support Technical Improvement SMPP/MOPP/DART line. (-592) b) Sensitive Ordnance Security Transfer of 23 billets for security and inventory (AA&E) to CINCLANTFLT. (-787)	
4.	Program Increases	121,826
	A. Other Program Growth in FY 1986 (121,8 1) Emergency Salvage Increase due to emergency salvage requirement regarding two classified	326) 258

B. Reconciliation of Increases and Decreases (cont'd)

- 2) Quality Evaluation The growth in QE will be applied to ships combat systems and equipment readiness assessment. Funding (2,902) provides quantitative assessment of readiness parameters by ship class and is used to measure need for and effectiveness of readiness improvements. Funding (2,935) will be used for missile (SM-1/2, NSS, BPD) performance analysis, additional SUBROC requirements because of extension of fleet removal date, evaluation of SLMM components related to safe life, SM-2 maintenance quality analysis, propulsion and electro explosives, evaluation programs for new weapons, RAM and 5" GP, and quality determinations for Marine Corps munitions in Maritime Prepositioning Ships.
- 3) Small Arms Management
 Increased funding will provide an additional
 .7 manyear of effort to perform the missing,
 lost, stolen, or recovered (MLSR) function
 (46). Also, will provide 3.5 manyears of
 effort to partially perform the segregation,
 serialization, and Inventory of weapons in
 Depot storage (209).
- 4) SMS Logistics and Tech Support
 Program growth is due to
 the increased resources required to support
 the new FFG-7s entering the fleet.
- 5) RSS&I
 Increase funds an additional 31 thousand short tons of regular RSS&I to support the expanding Fleet requirements based on current Fleet schedules (614). Additional funds are required to support full implementation of Fleet Optical Scanning and marking system (FOSAMS), since the design and development effort will be completed in FY 1985. (1,626)
- 6) Property Disposal of Ordnance Increase is required to reduce the 37,000 short ton, 35,600 line item backlog awaiting reclamation, sales, demilitarization, or relocation by 8,000 S/T (1,871). Supports inventory accounting and reporting functions, new receipts inspection/verification, and

255

653

2,240

3,001

B. Reconciliation of Increases and Decreases (cont'd)

physical inventories on 20,000 L/I (170). Maintains demilitarization facilities/ equipment and installs available new demilitarization equipment at 1 activity (960).

- 7) Safety
 Increase provides funding for the Combat
 Vessel Test Program for tests on 8 major
 weapons systems (600); for the HERO retest
 program to evaluate 30 major weapon systems
 (525); and for evaluation of an additional 5
 lithium battery systems (33).
- 8) NAVOSH 471
 Increase provides funding for Safety School
 Training for an additional 320 personnel.

985

64

1,192

- 9) Sensitive Ordnance Security
 Increase funds Security Shore and Shipboard
 Equipment (locks, hasps and weapon containers)
 (201). Increase also funds the inventory of
 an additional 34,000 tons of ammunition and 141,000
 arms in risk categories I-IV (784).
- 10) Ship Design Services
 Increase will be used to reduce backlog of outdated design practices.

 670
- 11) NAVSEA Material Support

 Fully funds HM&E related computer
 support (884).Strip Ship will reclaim an
 additional 28 pieces of equipment (128).
- 12) INSURV
 Increase provides funding for development
 of additional Combat Systems Trials Test
 programs.
- 13) Maintenance and Material Management
 Reflects the increase in on-board SNAP units
 which require development of an initial
 logistic data base. (685) Expand Reliability
 Centered Maintenance (RCM) effort. (507)
- 14) Fed/Mil Standards and Specifications
 Increase will allow 41 additional Specs or
 Standards to be updated or developed. This
 has a direct impact on the operating fleet
 by minimizing the number of outmoded,
 deficient or overly expensive equipments
 put on ships during the overhaul/repair
 cycle. (354)

B. Reconciliation of Increases and Decreases (cont'd)

Ship Survivability Design is a FY 1986 new start which updates survivability design documents. Survivability design documents pertaining to nuclear effect, non-nuclear effects and susceptibility require upgrading to implement both changed policy and more stringent hardening requirements. (693) HM&E standardization is a FY 1986 new start which will develop 22 standard Navy specifications that will enable a procurement activity to procure standard spare parts (2,287).

15) Marine Gas Turbine (MGT)
Increase is for MGT support of the LCAC class introduced into the Fleet in FY 1986 (1,700); to develop life cycle management for diesel engines (452); and to increase the current capability for depot repair of MGT Ship Engineering Control Systems in order to maintain the turn-around-times required to keep ship downtime to a minimum (2,697).

4,849

5,709

51

- 16) SNAP
 Increase in field support as the number of systems to be supported increases from 328 to 450.
- 17) PHM Logistic Support
 Increase results from adjustments in the range and depth of the Contractor Logistics Support shore materials, technical problem resolution, and development of additional ship maintenance information for the PHM class.
- 18) Standardization
 Funds development of a procedure to automate
 routine updates of Components Characteristics
 File information into the standardization
 data base.
- 19) SAMIS
 Increase is for NARDAC Computer Support
 and SAMIS implementation for additional
 site terminal support at planned user
 sites.

B. Reconciliation of Increases and Decreases (cont'd)

20) Logistic Support Program Spare Parts Breakout funding supports 2,254 additional full screen breakout reviews of spare parts with an annual buy value greater than \$10K. This includes 18 additional Acquisition Method Coding Conferences, 19 Contractor Technical Informmation Coding packages and 10 Technical Data Acquisition packages (12,075). SECAS funding primarily supports validations of 12 additional ships and shore activities and assignment of Automated Integrated Language System Identification Numbers (AILSIN) for 176 additional ships (5,128). PAFOS funding supports supply readiness program and depot level provisioning program and increased support for the provisioning allowance program (2,029). ILO funding generates and maintains procedures, and provides assistance for Ship Planned Maintenance System documentation training for ILO site staffs (902).

20,134

744

- 21) Integrated Log Spt Tech Imprv
 1,310
 Program increase will fund development of
 a Command level logistics guide to assist
 program managers in the preparation &
 execution of logistic responsibilities;
 expand audit program; and commence effort to
 institutionalize an ILS tracking system to
 be used at industrial sites.
- 22) Navy Diving Program
 Program increase to meet additional testing and fleet support requirements: includes 1 rescheduled deep sea dive, the testing of 10 pieces of experimental diving equipment, 40 Diver Air Purity Analyses, 160 surface support diving tests, 10 diving system certifications, 9 field evaluations, and 5 configuration management systems developed.
- 23) Inactivation of Ships

 Submarine Increase provides for the inactivation of 3 nuclear submarines.

 58,661
- 24) Shipyard Modernization 5,270 Increases funds six additional magnetic silencing systems (2,352), the maintenance of two additional nuclear hulls (471), 579

Activity	Group:	Logistics	Support	Activities	(cont'd)
DCCTATC)	Group.	TORIGICA	DOPPOLL	VCCT ATCTED	(COME G)

B. Reconciliation of Increases and Decreases (cont'd)

man weeks of FAMI-IMA Combat Systems training (1,297) and technical improvements for propeller profiler support, a new start (100). This increase will also fund additional pierside security at shipyards. (1,050)

25) Data Support
Increase for Central Design agent for NAVSEA
Automated Data System Activity efforts
for SUPSHIPS (183), PERA's (231), and
increased Data Communications requirements
(150). Additional Data Support requirement
for Headquarters graphics (36) and line
placing (35).

26) Other Program Increases

a) Nuclear Weapons Safety and Security 55
b) Acquistion Planning 37
c) VAMOSC 68

5. Program Decreases

-22,258

635

-795

A. Other Program Decreases in FY 1986 (-22,258)

1) NAVOSH
One less safety inspection will be performed.

2) Ship Design Service
Decrease due to elimination of purchase of
Remote site computing time. Design
computing service will be reduced to
70%. These remote services cannot be
provided by current in-house facilities.

3) INSURV -170
Material Inspections will receive 3.2
workyears less support in FY 1986.

4) Maintenance and Material Management -1,405
Documentation Maintenance - 3,100 fewer complex
Technical Feedback Reports (TFBR) will
be answered (-506). MDS II - Delays the
effort to coordinate current ADP
maintenance systems, using SNAP computers,
into one central maintenance system (-899).

Activity	Group:	Logistics	Support	Activities	(cont'd)
activity	Group.	TOPISCICS	Support	MCCIATCICO	(COLL G)

B. Reconciliation of Increases and Decreases (cont'd)

5) Marine Gas Turbine	-854
The major existing diesel engines problems	
in the areas of supply support, technical	
documentation, operational guidance,	
shipyard practices and procedures, product	
improvements and maintenance improvements	
were resolved in FY 1985.	

- 6) SNAP -4,541

 Decrease is due to the completion of installation support for SNAP I systems and decreasing installation support for SNAP II systems.
- 7) Integrated Log Spt Tech Imprv
 SMPP/MIP/DART

 Number of ROHs planned and evaluated
 decreases from 4 to 3. Additionally, the
 following programs are eliminated: maintenance support for SFOMS; technical assistance
 analyses; prototype class techplans; and
 issuing standard test procedures. Decreases
 also associated with the completion of
 devleopment of age reliability curves and
 procedures. (-671)
- 8) Inactivation of Ships -1,077
 Two fewer surface ships will be inactivated.
- 9) Underutilized Plant Capacity -12,587
 Decreased requirements at the
 ordnance facilities to maintain
 mobilization capacity. Funding at the
 FY 1986 budget request amount is adequate
 to maintain 85% mobilization capacity at
 these facilities.
- 10) Other Program Decreases
 a. Surface Warfare Journal -9
 b. Radiation Control and Health -8
 c. Energy Conservation -32
 d. Other Support Program Act -29

-78

6. FY 1986 President's Budget Request \$461,392

III. Performance Criteria and Evaluation

A. EMERGENCY SALVAGE OPERATIONS

Program provides the capability to respond to operational salvage and stranding requirements for Navy ships, submarines, cargoes, and high interest items (missiles, ordnance, and other objects). Funding pays for ships, equipment personnel, and other material required for emergent salvage operations.

Total Funding (\$000)	FY 1984 \$ Units \$3,642		FY 1985 \$ Units \$1,196		FY 1986 \$ Units \$1,505		
Ship Salvage Operations	108	3	719	4	749	4	
Submarine and High Interest Salvage Ops	3,534*	1	477	2	756	4	

^{*}Funding for KAL 007 salvage operation

B. SURFACE WARFARE SYSTEMS

1. Quality Evaluation

The quality evaluation program provides for quantitative test and evaluation appraisals of the safety, readiness, effectiveness, and shelf or service life characteristics of in-service expendable munitions. The results of the appraisals are provided to acquisition and in-service munitions program managers.

	FY 1984 S/ WY	FY 1985 S/ WY	FY 1986 S/ WY
Total Funding	12,288	14,642	20,830
Nuclear Weapons Eval	222222222	********	
(Workyears)	1,555/22	1,767/25	1,847/26
Conventional Weapons Eval (Workyears)	10,733/150	12,875/179	16,081/218
Ship Maintenance Analysis	_	-	2,902/ 39

2. Surface Warfare Journal

Surface Warfare Journal is published to 350,000 officers and enlisted personnel of the Surface Warfare community to increase professionalism, improve readiness, and increase retention.

	FY 1984 \$/Units	FY 1985 \$/Units	FY 1986 \$/Units
Total Funding	287	300	303
Issues Published per year (50,000 copies per issue)	6	6	6

III. Performance Criteria and Evaluation (cont'd)

3. Small Arms Management

Provides centralized life cycle Navy program management for small arms, weapons, and mounts as well as combat equipment, 2,665 individual unit allowances for Navy Marine Corps Aviation, Coast Guard, and Military Sealift Command Organization.

~	FY	1984		1985		Y 1986
Makal Bundana	\$7	Units	•	Units	•	/ Units
Total Funding	2,529	****	2,297		2,607	******
Allowance Management	418	7.0	441	7.0	452	7.0
Serial Report for DOD Registry	525	8.0	519	7.4	531	7.4
In-Service Engineering Agent	482	7.0	441	7.0	452	7.0
Engineering Design Agent	337	4.9	356	4.9	365	4.9
Small Arms Inventory						
(# in Thousands)		375		376		377
Missing, Lost, Stolen or						
recovered government property						
program	562	8.9	540	8.6	598	9.3
Serialization, Screening,						
Segregation						
Inventory of weapons in						
Depot storage	205		-	_	209	3.5

4. Surface Missile System (SMS) Integrated Logistic Support

SMS Integrated Logistic Support provides logistics and technical support, assurance of quality instructions and availability of spares, supports data management, and installation and training equipment support of the Standard TERRIER, TARTAR, and surface missile systems in the Fleet.

	<u>FY 1984</u>	FY 1985	FY 1986
Total Funding/WYs	\$ 3,567/30.5	•	• •
Product Improvement	936	1,040	1,034

The objective of this program is to ensure that up-to-date quality assurance instructions are employed in the inspection and test of missiles and components, that the configuration, parts and components are verified, and when necessary, parts are made available from the material repository to support urgent fleet requirements.

Test Equipment Logistics	298	282	288
Support			

The object of this program is to support test equipment, depot level repair/maintenance planning, and metrology.

Operations/Technical/Logistics Support	2,333	3,628	4,401
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The objective of this program is to manage technical data for SMS engineering, ILS functions and operational forces.

III. Performance Criteria and Evaluation (cont'd)

C. AMMUNITION SYSTEMS

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1. Receipt, Segregation, Storage, and Issue (RSS&I) of Ammunition

Provides personnel and material associated with the movement, handling, and storage of ammunition required to support Naval, Marine Corps, and Coast Guard forces.

Regular RSS&I - Provides for the loading and unloading of ammunition from fleet ships and for all other handling within the Naval weapons stations and other NAVSEA industrial funded ammunition activities. Program requirements are based on: Fleet operating schedules; ships entering and retiring from the Fleet, overhaul schedules; new weapon systems installed on ships; and stock adjustments.

Rollback/Prepositioning of Ammunition - Provides for the rollback of excess and non-ready-for-issue stocks from storage outside of the continental United States and the prepositioning of war reserve and peacetime requirements to deployed fleet units, depots.

AE/AOE/Homeporting - Provides funding for the loading and unloading of mobile logistics support ships to permit ship hull and machinery maintenance at industrial piers where necessary services are available.

Approved Basic Stock Level Ammunition (ABSLA) Excess Relocation - Provides for the relocation of excess explosive stocks at coastal weapons stations.

Intra-DOD Warehousing - Provides for common service warehousing support of Air Force Cartridge and Propellant Actuated Devices.

OPSCAN - Supports a Productivity Enhancing Capital Investment (PECI) Project which improves the timeliness and accuracy of non-nuclear expendable ordnance material inventory management through the application of optical scanning technology to ammunition logistics.

Inventory - Supports an OPNAV mandated annual inventory of all ammunition stocks stored at CONUS weapons stations.

FOSAMS - Fleet Optical Scanning and Marking System. Expands the application of optical scanning technology to Fleet units.

Total Funding	<u>FY</u>	1984 <u>FY 1985</u>	FY 1986
	\$	WY \$ WY	\$ WY
	61,57	6 751 57,640 729	61,277 738
	\$ FY 1984	<u>FY 1985</u>	FY 1986
	\$ Units	\$ Units	\$ Units
Regular RSS&I Rollback/	53,090 465,70	2 48,906 430,615	50,694 461,370
Preposi- tioning Assumition	1,116 6,79	1 1,234 5,076	1,264 5,391

III. Performance Criteria and Evaluation (cont'd)

Receipt, Segregat	ion, Storage,	and Issue	(RSS&E) of	Ammunition	cont'd)

AE/AOE Homeporting Units = Number of short i	2,644	29,554	2,207	28,382	2,261	31,248
ABSLA Excess Relocation	577		1,110		1,137	
Intra-DOD Warehousing	400		679		695	
OPSCAN	315		0		0	
Inventory	3,434		1,944		1,991	
FOSAMS (Fleet OPSCAN)	0		1.560		3,235	

2. Property Disposal of Ordnance

Supports personnel, materials, and facilities to make safe and dispose of ordnance which can no longer be maintained or has left the Navy inventory. These weapons and weapon components are then made available for: disposal, reuse, reclamation, or sale. (Revenues from sales are deposited in the general Treasury).

Total Funding	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
	5,268	4,417	7,536
1. Disp Admin Accty reporting, Receipt	2,134	1,755	2,150
	(25,550)	(28,150)	(20,300)
Inspec, Shipment, & Quality Assurance (No.of Line Items) 2. Disp Tech Spt,	2,085	1,840	1,328
Demil Test & Eval, & Equip Maint (WY's)	(22.94)	(23.9)	(18.64)
3. Disp Demil, Declass, & Inert Ord Procs (Short Tons)	841	594	2,640
	(1,700)	(2,340)	(10,400)
4. Disp Reclama- tions, & property sales (No. of Line Items)	105	62	468
	(1,562)	(923)	(4,200)
5. Disp Equip Instal- lation (WY's)	-0-	121 (1.3)	870 (10.2)

III. Performance Criteria and Evaluation (cont'd)

6. Destruction of	103	45	80
Ammunitions,	(220)	(150)	(280)
Explosives, &			
Other Dangerous			
Articles			
(No. of Short Tons)			

D. SAFETY AND SECURITY

1. Nuclear Weapons Safety and Security

The safety portion of the program provides for implementation of the DON Nuclear Weapons safety program and includes the distribution and control of technical publications and supporting in-service engineering functions related to nuclear safety. The security portion of the program provides for upgrading and hardening nuclear weapons-capable Navy activities, including maintenance of specialized security systems and sensors, upgrading ordnance communications, and leasing security vehicles. Shipboard security includes upgrading security alarm systems and improved tactical communications.

Total Funding	FY 1984 \$/Units 4,881	FY 1985 \$/Units 5,984	FY 1986 \$/Units 6,210
Safety Studies/ In- Serv Eng actions	(2,350) 755	(2,820) 766	(2,801) 751
Nuclear Security:	(2,531)	(3,164)	(3,409)
Ordnance Station Security	2,231	2,504	2,105
Shipboard Security/ Ship Installations	300 12	660 22	1,304 42

2. Safety - General

Provides support for the assessment of hazards of electromagnetic radiation and the damage potential of accidents involving explosives and weapons systems.

Total Funding	FY 1 \$ 3,366	984 WYRS 34.7	FY 1 \$ 3,152	WYRS	FY 1 \$ 4,400	986 WYRS 38.8
Weapons System Explosive						
Review Board	1,279	12.7	1,274	12.7	1,374	12.7
Combat Vessel Test	·		•		-	
Program	221	4	_		600	8
(Systems Analyzed)		·				-
HERO Program	1,000	12.9	1,000	12.3	1,500	17.0
Lithium Batteries	300	3.0	300	3.0	300	3.0
(Explosion Hazards)				***	-	

III. Performance Criteria and Evaluation (cont'd)

Safety Publications	476	6.1	488	6.1	536	6.1
Naval Explosives Safety						
Improvement Program	90	-	90	-	90	

3. Navy Occupational Safety and Health (NAVOSH)

Provides technical support for guidance and procedures regarding detection, evaluation, and control of workplace hazards such as asbestos, mercury, work in confined spaces, lead and other hazardous material/processes. Correction of equipment and facilities deficiencies is included. Also provides for the operation and maintenance of the NAVSEA safety school curriculum, training modules, and career development programs.

Total Funding	FY 1984 \$ Units 2.237	FY 1985 \$ Unit 1.916	FY 1986 \$ Units 2.374

NAVOSH Technical Support Safety Investigations	388 /8	578 /12	523 /11
NAVSEA Safety School	1,459	9 38	1,451
People Trained Lithium (Health Hazards)	/915	/588	/908
Batteries	390	400	400

4. Radiation Control and Health

The program directs the Navy-wide radiological control effort for personnel who handle, stow, or maintain Navy nuclear weapons.

Total Funding	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
	712	753	724
 Surveys and Tech Services Tech Assts, Training and Prog Spt Program Implementation Radiological Lab Services 	\$603	\$508	\$506
	37	49	53
	11	39	25
	61	157	140

5. Sensitive Ordnance Security

Provides physical security and accountability of Navy arms, ammunition and explosives with guards, inventory personnel, and security equipment.

	FY 1984	FY 1985	FY 1986
Total Funding	11,814	\$12,507	\$13,005
Ordnance Inventory Associated	\$3,006	\$1,718	\$2,851
Risk Categories I - IV* (Tons)	82,427	47,987	82,427

III. Performance Criteria and Evaluation (cont'd)

Arms Inventoried (# of Items)
Risk Categories I - IV*

338,826

197,226

338,826

* Ordnance Inventory explanation of Risk Category:

Risk Category I contains non-nuclear missiles and rockets in ready-to-fire condition.

Risk Category II contains grenades, mines, demolition, explosives, and light automatic weapons.

Risk Category III contains .50 caliber and large ammo equipment, and explosive projectile and major ancillary equipment,

Risk Category IV contains ammo with non-explosive projectile, non-automatic weapons (hand guns, etc.), riot control material (tear gas, flares) & equipment/material not covered above.

Physical Security Workyears Security Vehicles leased Security Equipment leased Patrol Boats Supported	\$ 6,280 157 43 - 3	\$ 7,794 170 46 - 3	\$ 7,650 170 46 - 3
Technical-Surveyors-Inspections Shore Surveys/Audits/Inspections Ship Surveys/Audits/Inspections	\$ 1,102 94 93	\$ 645 48 121	\$ 685 37 108
In-Service Engineering	\$ 264	\$ 280	\$ 305
Inventory/Security (CINCs) Workyears	\$ 947 30	\$ 1,917 54	\$ 1,130 31
Shore & Shipboard Equipment Locks, hasps, containers	\$ 69 28	0	\$ 201 350
Lockshop (Crane)	\$ 146	\$ 153	\$ 183

E. SHIP SYSTEMS

1. Ship Design Services

a. Ship Design Engineering Methodology - Develops and updates Navy unique ship design criteria and practices. Currently backlog is more than 150 practices requiring upgrading. Also updates design synthesis models which provide the baseline data on ship performance and cost for all classes of ship design. Updated criteria make discrepancies between Navy and contractor estimates and designs readily identifiable. Design synthesis models increase the emphasis on performance/cost tradeoffs through all stages of design development.

III. Performance Criteria and Evaluation (cont'd)

b. Automated Engineering Data Support - Provides computer support to design engineers for automated calculations essential to ship design, construction, and maintenance. Computer programs, such as simulation models, are available and used extensively for solving the numerous "what if" questions ranging from structural and vibrational analysis of small foundations to hull definition and ship design weight estimates. Cost benefit ratios favoring automation are conservatively 100:1 for calculation, 3:1 for drafting and 20:1 for scientific data management. Cost avoidance for calculations alone is estimated at \$30 million or greater. Funds provide (1) service support for the in-house facility, (2) supplies and equipment maintenance for the in-house facility, and (3) remote facility computing time.

c. Configuration control - Performed technical validation of total ship configuration baselines and life-cycle system and component changes to ship/ship class design and related logistic support (funded in FY 84 only).

Total Funding	FY 1984 \$/Units 2,943	FY 1985 \$/Units 1,861	FY 1986 \$/Units 1,794
a. Ship Design Engineering Methodology			
Practices updated Models updated Subtotal b. Automated Engineering	179 3 35 1 \$214	150 2 45 1 \$195	787 12 <u>86</u> 2 \$873
Data Support			
In-House Computer Time Includes Support Service	\$847	\$894	\$921
Remote Facility Computing Time	\$882	\$772	\$0
Average # of Users	300	320	204
c. Configuration Control	1,000 10	0 0	0 0

III. Performance Criteria and Evaluation (cont'd)

2. NAVSEA Material Support

Maintains and monitors NAVSEA In-store (on the shelf) assets. Removes needed equipment from stricken or inactive ships and prepares it for shipment. Also provides a management information system to monitor program development. The program objective is to ensure that government furnished material which is in storage or on-board inactive ships is delivered on-time to meet contractual shipbuilding schedules to avoid costly delays and/or to establish accelerated ship overhaul schedules. The program has three main parts: (A) Material Upkeep, which seeks to preserve stored equipment from deterioration and thereby protect a \$161.4 million inventory; (B) Strip Ship, in which equipment needed for new construction or for overhauls is removed from stricken ships, thereby avoiding the cost of new equipment procurement; and, (C) Data Systems Support, which procures data processing from the Naval Regional Data Automation Centers in support of Hull, Mechanical and Electrical related tasks such as definition and monitoring of the billion dollar acquisition of 2S, 2F, and 2J cog equipment.

		84 Inits	FY 1'	985 Units	FY 1	986 Units
Total Funding	1,591		1,950		2, 8 95	
Material Upkeep	763	107	960	260	981	273
Pieces of equipment preserved		197		268		2/3
Strip Ship Program* DDG-33 (EX-PARSONS)	0		498			
DD-945 (EX-HULL) Pieces of Equipment Removed				120	555	148
HM&E Data Systems Support.	828	13.8	492	8.2	1,359	22.4

*Variations in Strip Ship unit cost are a result of end-use of the vessel (i.e., sale, donation, target, etc.) after it is "stripped"; location on the ship of equipment being removed; and variations in manday rates (i.e. East Coast VS West Coast and private yard VS public yard).

3. Inspection and Survey (INSURV) Material Inspections

Provides skilled technicians to support the work of the President of the Board of Inspection and Survey (PRESINSURV). The Material Inspections (MI) of ships of the active fleet conducted by INSURV gives the Chief of Naval Operations an impartial factual report of the material condition of each ship on a triennial basis. These survey reports highlight any condition which degrades the ship's capability to perform its mission or which indicates that the ship is not being properly maintained. A useful by-product of the Material Inspection is the detailed information on individual system/equipment deficiencies, which is used in planning corrective maintenance.

Total Funding		\$ /Units 1,701	FY 1985 \$ /Units 1,231	FY 1986 \$ /Units 1,177
INSURV MI's		1,282	1,159	1,039
Total WY's		26.5	22.8	19.6
Baseline Studies		419	72	138
	7	160		

III. Performance Criteria and Evaluation (cont'd)

In addition to material inspections, fleet baseline studies of systems/equipment equipment problems on specified ship classes are conducted. These are also initiated by PRESINSURV.

4. Maintenance and Material Management (3M)

The program is comprised of the following Fleet support efforts: (A) Planned Maintenance System (PMS) provides each ship with the maintenance procedures required to maintain ship reliability; updates each ship's procedures twice a year; and provides replacements upon request. (B) SNAP Data Base Program, provides and maintains configuration data bases for SNAP I and II installations; (C) Maintenance Data System (MDS), provides data that is used by SYSCOMs and the Fleet to plan for maintenance needs and Fleet improvements; (D) Navy Oil Analysis Program (NOAP), provides analysis of Machinery lube oil to predict repair needs; and (E) Surface Ship Machinery Condition Assessment (SSMCA) whose objective is to eliminate unnecessary overhaul of machinery by recommending repairs based on machine condition in lieu of elapsed time.

	FY 1984	FY 1985	FY 1986
Total Funding	12,598	14,767	15,017
	*******	: CERSESUES ES	

A detailed description of the four elements of the program follows:

A. Planned Maintenance System (PMS)

PMS Library funding provides for updates of maintenance procedures to 2300 Fleet and Shore Activities. It also provides maintenance procedures upon request. PMS Documentation Maintenance provides for revision/update of maintenance documents; for answering complex and routine technical feedback reports related to Hull, Mechanical and Electrical (HM&E) systems; and for processing other feedback reports. Reliability Centered Maintenance (RCM) is an effort to redevelop PMS documentation. PMS documentation developed under the RCM methodology results in a system approach versus an equipment approach to maintenance. Previously implemented on FFG-7, DD-963 and FF-1052 classes and on new construction ships. Combat Systems Readiness Review (CSRR) is a detailed evaluation of the Combat System's condition prior to deployment. CSRR/CSRT provides Combat System test plans which use PMS documentation to test material readiness of ships prior to deployment. It has been proven by INSURV that performance of PMS requirements improves Fleet readiness. RCM effort reduces manhour requirements of PMS without adversely affecting readiness.

	FY 1984	FY 1985	FY 1986
PMS Library	2,400	2,500	2,600
PMS Documentation Maintenance	5,525	6,225	5,927
Reliability Centered Maintenance (RCM) Combat System Readiness Review/Combat	-0-	587	1,112
System Readiness Test (CSRR/CSRT)	-0-	300	· 300
Total	7,925	9,612	9,939

III. Performance Criteria and Evaluation (cont'd)

B. SNAP Data Base

Provides for initial development of ships' SNAP I and II logistic data base (Scheduled to complete in FY 1988). Also provides for initial development of data files which handle configuration changes of logistic data in a mechanized format. This latter effort is required to allow ships with SNAP I and II systems to accomplish automatic update related to configuration change. Reduces shipboard administration workload and improves quality of data used in identifying problems in equipment reliability and logistic support.

Data Base Development	300	500	700
Data Base Maintenance	-0-	-0-	500
Total	300	500	1,200

C. Maintenance Data System (MDS)

Provides for collection of maintenance records from the Fleet and establishment of data bases for use of the Fleet and SYSCOMs. Data obtained from MDS system is used to plan for maintenance needs and Fleet improvements. Also included in MDS is an effort to upgrade maintenance management in the Fleet and at Shore activities (MDS II). Included in MDS II is the effort to coordinate current ADP maintenance systems, using SNAP computers, into one central maintenance system at the organizational and intermediate levels, to support TYCOM maintenance management and to provide an improved interface with depot maintenance. This will improve reliability, maintainability and logistic support of fleet equipment, which impacts the operational readiness of the ship.

		FY 1985	
MDS I	1,589	2,646	2,465
MDS II	300	1,189	590
Total	1.889	3.835	3.055

D. Navy Oil Analysis Program (NOAP)

Minimizes need for periodic maintenance and improves machine availability . onboard ships.

	FY 1984	FY 1985	
NOAP	824	820	823

E. Surface Ship Machinery Condition Assessment (SSMCA)

FY 1985 and outyear funding transferred to Surface Ship Improvement Program in BA-2.

Total 1,660 0 0

5. Federal/Military Specs/Stds

There are three main parts to the program:

Prepare, Update F/M Spec/Stds - Prepare and update Federal and Military Specifications and Standards needed for ship equipment acquisition, maintenance, repair and overhaul.

Federal/Military Specs/Stds (HM&E Standardization) - Develop standard specifications that will enable any procurement activity to acquire a standard unit or piece parts support. The objective of this effort is to increase

III. Performance Criteria and Evaluation (cont'd)

Fleet readiness by minimizing the diversity of HM&E equipment and systems and their supporting documentation.

Federal/Military Specs/Stds (Ship Survivability Design) - Survivability design documents for nuclear effects, non-nuclear effects and susceptibility require upgrading to implement substantially changed policy and more stringent hardening requirements. The current survivability design documentation reflects World War II "Lessons Learned" and does not adequately account for current/postulated threats or advanced technology that has evolved in recent years.

Funding Total	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
	2,251	2,527	5,944
Update Specs and Stds Standardize Specs Survivability Doc. Update		2,527/1846	

6. Energy Conservation

Program provides support for planning, coordinating and implementing the NAVSEA Energy Conservation (EC) Program. The program covers the full-range of EC, governing current and future ships as well as NAVSEA shore activities and consists of four main efforts: A. Ship Energy Conservation Assist Team (SECAT) Visits during which the SECAT demonstrates to ships force energy conservation measures which utilize existing equipment. B. New Ship Design Analysis - Review new ship designs for implementation of energy conservation initiatives. C. Ship Energy Conservation supports issuance of energy conservation regulations, application of related R&D projects and expedited hull cleaning and coating. D. Energy Conservation (EC) - checklists will be developed for several ship classes. The checklists compile many energy conservation strategies for easy reference by shipboard personnel.

Tot	al Funding				FY 1986 \$/ Units
101	ar renering	337	VIJ	UU 22 2222 22	,
A.	SECAT Visits Savings	239	8 visits 360 46K BBLS*	12 visits 69K BBLS	360 12 visits 69K BBLS
В.	New Ship Design Analysis	0	30	l Anal	42 2 Anal
c.	Ship Energy Conservation Savings	100	97 19K BBLS	19K BBLS	82 18 BBLS
D.	EC Checklists	0	128	5 CL	125 5 CL

^{*}BBLS = Barrels of oil Saved

III. Performance Criteria and Evaluation (cont'd)

7. Marine Gas Turbine

In FY 1986, 124 U.S. Navy combatant ships will use 557 Marine Gas Turbines (MGTs) for propulsion or electrical power generation. The replacement cost of these assets is well in excess of \$lbillion. The program provides life cycle engineering and technical support services for the MGTs and associated MGT Ship Engineering Control Systems (ECS) as well as selected diesel engines, (i.e., Fairbanks Morse and Detroit Diesel Allison 71 Series). Efforts support an increasing and aging MGT /ECS population by maintaining a high level of fleet readiness with a limited number of spare engines. Funding provides for: ship assistance teams to augment ships' personnel in accomplishing depot level repairs in place; engineering support for emergent fleet problems; technical manual maintenance and update; program management support (configuration management and reli-ability maintainability data systems management) necessary for planning on board inspections and repairs. The depot level repairs, accomplished on board, are specifically designated by the MGT program office on a case-by-case basis.

	FY 1984 \$ Units	FY 1985 \$ Units	FY 1986 \$ Units
Total Funding (\$000)	8,069	11,011	15,203
Total Diesel Funding	687	1,080	697
Total MGT funding	7,382	9,931	14,506
MGT Engines Supported	471	514	527
Combatant Ships with MGT	100	113	124
On Board Repairs	64	111	96
Cost Avoidance/Yr	271	4 51N	1 47M

If the repairs are not done on board, but at the depot, the additional cost to NAVSEA refit and restoration line would be as indicated above in the cost avoidance line. Furthermore, the supply of spare engines will be quickly exhausted because repair requirements will exceed depot repair capacities.

8. Shipboard Non Tactical ADP Program (SNAP)

The SNAP I and II programs are an effort to replace obsolete nontactical automated support on the larger ships and to introduce standard nontactical ADP equipment on smaller ships of the Fleet in order to reduce clerical and administrative burdens. Higher goals of readiness require the effort toward decreasing time spent on administration so that increased time can be spent on operational functions. Morale is also improved by workload reduction. SNAP I replaces obsolete equipment on large ships such as aircraft carriers and auxiliaries and adds an interactive capability throughout the ships. SNAP II provides ADP capability for 450 smaller ships.

TOTAL FUNDING	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
	12,583	16,025	13,585
1. Field Support 2. SNAP I Contract	1,456	2,416	3,932
	7,441	9,107	4,971

III. Performance Criteria and Evaluation (cont'd)

3. SNAP II Contract 4. Other Contractor Spt	3,203	4,023	4,124
	483	479	558
Number of Ships Maintained	200	328	450

9. PHM Logistic Support

Provides PHM Class support through the use of contractor logistic support. This program effort is a management effort to improve the readiness of these ships especially in the materials management area by having a ready stock of unique and necessary parts for the six ships. The contractor logistic support provides unique material support, engineering and technical support and planning yard design agent support. The Navy spent \$389 million to build five PHMs. So far, performance of these ships has suffered because of logistic support problems due to not having a complete stock of the unique materials necessary for maintaining readiness of these ships.

Number of Ships	6	6	6
Total Funding	FY 1984 \$5,057	FY 1985 \$4,744	FY 1986 \$10,657
1. Materials Management	1,952	1,850	2,883
2. Planning Yard	1,287	1,136	1,424
3. Eng and Tech Support	1,818	1,758	2,426
4. Materials	-0-	-0-	3,924
Inputs/Outputs			
Repairables processed/per mo. Turnaround time/days	14 235	9 235	50 70
Line item procurement/items Leadtime/days	25 195	19 195	90 50
Line Item issues/per mo.	45	40	150
Tech Sup Reqs Placed in work/mo.	3	2	30
Manual Revisions/per mo.	1	.5	5

III. Performance Criteria and Evaluation (cont'd)

F. ACQUISITION AND LOGISTICS SUPPORT

1. Standardization

This program is designed to conserve resources by standardizing equipment, parts, material and related software and procedures. The program provides for the development of general approaches and detail procedures for achieving standardization in ship acquisition and maintenance actions. It also supports a continuing effort to minimize models and varieties of shipboard equipment.

	FY 1984	FY 1985	FY 1986
	\$ WY	\$ WY	\$ WY
Total Funding	298 6.3	344 5.5	408 7.3

Proj Reducing Varieties of Equip	115 2.0	125 2.0	98 1.8
Maintain & Update Data Base	183 4.3	81 2.0	160 4.0
Standardize Overhaul Procedures		138 1.5	150 1.5

2. Acquisition Planning

Provides the following: the establishment and maintenance of a ship acquisition data base; studies and reports related to ship acquisition planning; and the continued study of ways to improve specifications and planning in major systems acquisition and ship construction projects, mobilization planning and support for the NAVMAT Data System.

Total Funding	\$1 ,38 9	\$2,273	\$	2,405
	*******			*******
a. Acq Plng & Control Exec (WY)	\$235	2.4 \$392	4.4	\$516 5.1

Provides support for preparing alternative 15-year shipbuilding programs, programmatic and industrial-base assessment, update of the Navy Ship-building Program Book, and a data base of acquisition schedules and industry/material planning data.

	l.	Systems Analysis			
		and programming	225	284	343
	2.	Equipment Maintenance	•	42	84
	3.	Supplies	-	6	11
	4.	Other	10	60	78
ъ.	Acqu	isition Appraisal/			
	Asse	ASMent	\$17	1 -	_

Provides a data system that displays timely and quality information on acquisition program appraisal of more than 200 programs.

III. Performance Criteria and Evaluation (cont'd)

FY 1984		FY 1985		FY 1986	
\$	WY	\$	WY	\$	WY
4100		400/	2 5	4050	

c. Test and Evaluation Reviews

Provides engineering support for reviews of each acquisition program's Test and Evaluation Master Plan, and for examining test results prior to certification of a system's readiness for operations evaluation and approval of start of production.

d. Shipbuilding Programs

\$ 42 .5 \$136 1.6 \$105 1.2

Supports COMNAVSEA as Coordinator of Shipbuilding, Conversion, and Repair for DOD. Provides engineering support for the installation of equipment aboard merchant ships to augment naval forces, as required by law.

e. Acquisition Policy/Guidance

\$162 1.6 \$214 2.3 \$195 2.0

5

Provides for development of acquisition policies and procedures, including those associated with Configuration Management, and extension of the 5 digit work breakdown structure (WBS) for application to construction, repair and maintenance.

	1. Acquisition Policies	62	65	60
	2. Extended WBS	50	74	70
	3. Configuration Management	50	75	65
f.	Mobilization Planning	\$280	\$325	\$298

The mobilization process encompasses all activities necessary to move systematically and selectively from a normal state of peacetime preparedness to a warfighting posture. It includes phased incremental options both for deterring war and for enhancing force readiness, deployment, or sustainability should deterrence fail. The complexity and magnitude of the mobilization process makes sound planning essential for successful implementation. This program provides for the systematic execution of NAVSEA mobilization related programs and involves an analysis of major JCS/Navy Planning Documents and Fleet Operation Plan (OPLAN's), Logistic Support and Mobilization Plans. It also provides analysis of related industrial mobilization plans to determine adequate levels of logistic support and to evaluate the ability to meet these requirements.

1.	Advance Base Functional Program	134		-		-
2.	Logistic Support and Mobilization Plan (wy)	146	3	325	6.4	298 5.5
g.	Naval Material Data Systems Group Support	\$190		\$201		\$250

Program provides support for a facility which includes the following functions: (1) a comprehensive communications capability; (2) approximately 2500 cubic feet of files and records; (3) office spaces and supplies to accommodate approximately 300 people; and (4) an emergency first-aid area.

III. Performance Criteria and Evaluation (cont'd)

		FY	1984 F	Y 1985 FY	1986
h.	Commanders Development Program (C	(DP) \$	82*	\$531	\$533

The CDP was established to help fulfill NAVSEA's need to develop personnel to fill key positions. The CDP is based on selecting 10 participants each year for a three year program including planned rotational assignments coupled with special development courses.

i. NAVSEA Institute (NI)

\$182* \$250 \$250

123

123

The NAVSEA Institute was established to provide special development accredited courses, not usually available locally, that are directed toward meeting mission needs and given at a location and after hours time convenient to NAVSEA employees. Courses are primarily geared to Naval Architecture, Marine Engineering, Combat Systems, Computer Science, Operations Research, and Ship Acquisition/Logistics Support.

* For FY 1984 the following funds are shown in the Data Support Line CDP \$348K NI \$60K

Total funding responsibility is transferred to Acquisition Planning in FY 1985.

3. Ship Alteration Management Information Systems (SAMIS)

The Ship Alteration Management Information System (SAMIS) provides ADP support for the Fleet Modernization Program (FMP) planning and execution of alteration installations aboard ship. SAMIS includes a related effort to modernize ADP hardware and software to achieve significant management improvements in a major support effort of the Depot Overhaul Improvement Program (DOIP). These efforts are directly related to the operational/combat readiness of ships leaving the overhaul process. This program will provide a fully documented program plan which will include program responsibility, a carefully defined system specification, identified interfaces and a detailed implementation plan.

123

Number	٥f	Planned.	TIGOT:	Citas	
MIIM DET	or	riannea	USET	21168	

		FY 1984 \$		35 FY 1986 its \$ Uni	ts
Tot	al Funding	5,388	4,489	7,462	
1.	ADP Plan Contract SAMIS Impl Spt Cont	2,100	1,655	2,500	
2.	NARDAC Computer Spt	2,240	2,253	4,962	
3.	NARDAC Development	548	-0-	-0-	
4.	Prototype Lease Equip	500	581	-0-	

III. Performance Criteria and Evaluation (cont'd)

4. Logistic Support Program (LSP)

The programs that comprise the LSP are Integrated Logistics Overhauls (ILO); Ship Equipment Configuration Accounting System (SECAS)/Configuration Status Accounting (CSA); Provisioning, Allowance and Fitting Out Support (PAFOS); Outfitting Support; and Spare Parts Breakout. The SECAS/CSA and ILO efforts collect, process, and distribute the configuration status data for each ship and activity, and identify the logistics support documentation and materials required to be loaded aboard ships after each overhaul, availability, or conversion. All of the above efforts are interrelated and must be performed in tandem to improve overall fleet material readiness. The three data systems provide the interface between the fleet and the logistics support systems, ensuring that proper outfitting materials are provided to the fleet. PAFOS and Outfitting Support determine the requirements for spare parts and spares necessary for maintenance throughout the ship's life cycle, and establish budget, management and control procedures to ensure that the requirements are valid, and that once budgeted, the funds are properly utilized. Spare Parts Breakout is in response to the DOD direction to increase competitive procurement for Navy spare parts.

Total Funding

	1984				
\$	units	\$	units	\$	units
17	,764	19	,523	40	0,447

Integrated Logistics Overhaul Program (ILO): Improves readiness by providing logistics support that accurately reflects the ship's true equipment configuration. It maintains procedure manuals, provides training, on-site technical assistance, ADP Support Systems, and monitors implementation at the ILO sites. When ships undergo overhaul, ILO verifies that logistics support (repair parts/Consolidated Shipboard Allowances List, Planned Maintenance System documentation and materials, technical manuals and test equipment) reflects the ships configuration (including the overhaul changes) and is loaded aboard ship at the end of overhaul. ILO also trains ships' force personnel in maintenance of logistics support during the operating cycle.

Total ILO Funding	\$3,346	\$708	\$1,673
Ships Assisted w/Tech Manuals	60	_	120
Manual/Guides generated/maintained	15	8	14
Mobile Assistance Team Visits	43	8	10
ADP Applications	67	_	50
Specifications/Documents			
Originated	680	-	150
Specifications/Documents			
Maintained	-	-	300
Bill of Materials for PMS Support	152	97	144

III. Performance Criteria and Evaluation (cont'd)

Logistics Support Program (LSP) (cont'd)

Ship Equipment Configuration Accounting System (SECAS)/Configuration Status Accounting (CSA) Program: Maintains the Navy's central configuration status accounting system to satisfy all Navy managers' requirements for CSA data. SECAS uses change reporting system (shared with 3-M system), on-site validations and shipyard reporting of overhaul changes to obtain data. Data from this central system is required for 60 functions performed by Navy operations, maintenance and logistics support managers. Several initiatives are underway to improve accuracy of the CSA system and to be able to handle increased workload of a larger Navy.

	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
Total SECAS Funding	11,516	4,052	9,393
Preoverhaul Config. Validations		-	-
of ships	98	30	42
Configuration Changes Processed	60K	10K	66.7K
Alteration Key Checkpoint Guides	912	360	0
SRA Config. changes	400	180	700
Ships AILSIN Maintained	72	24	200
Reports/Products	37K	8.8K	50K
ADP (Man Years)	16	16	25
Major Tech Dev. Program			
Enhancements/Tasks	400	120	200
Ships w/ ILO on-Site Assist.	120	52	0

Provisioning, Allowance and Fitting Out Support (PAFOS) Program: Determines the Navy's requirements for spare parts and spares to maintain the ship system or equipment for its life-cycle. Provisioning is the bridge between the acquisition manager's support requirements and the supply system's ability to fill those needs. It provides the data to support an equipment or weapons system's corrective and preventive maintenance, repair and overhaul requirements. The Fitting-Out Program provides a complete equipment configuration baseline for new construction ships, monitors provisioning progress, and provides new-construction on-site program assistance and assessment. The Depot Level Provisioning (DLP) process adds to existing Allowance Parts Lists (APL's), for NAVSEA designated HM&E equipments, those items required by the depots to support class "B" overhauls and components repair. Class "B" overhauls are short and leave no time for the current slow ordering process.

Total PAFOS Funding	\$2,489		\$1,435	\$3,713
Provisioning/Allowance				•
Prog. and Acq. Log. (WY)	706	6	859	(9) 1,153 (12)
Supply Readiness (WY)	-	_	_	- 600 (10)
Ships Fitting Out (WY)	-	_	576	(11) 425 (9)
Depot Level Provisioning (WY)	1,783	37	-	- 1,535 (26)

Spare Parts Improvement Program (SPIP) Implements the SECDEF direction to improve spare parts acquisition through competition. Full implementation is

III. Performance Criteria and Evaluation (cont'd)

planned for FY 1989. Breakout reviews, engineering and economic evaluations of technical data, are performed to determine competition feasibility of sole source acquisition of system stock line items.

In addition, new line items are reviewed during the provisioning cycle using Contractor Technical Information Coding (CTIC), Provisioning Technical Documentation (PTD) and manufacturing plant surveys are conducted during Acquisition Method Code (AMC) Conferences. Once a new item is coded for competition, the technical data necessary to compete the procurement is purchased, and the competitive procurement specification is developed by the life cycle management engineers. NAVSEA engineering evaluation and central SPIP planning and control are essential to ensure quality and accuracy of spare parts acquisition.

•	F	1984		1985		1986
TOTAL SPIP Funding	\$ 413	Units	\$ 13,328	Units	\$ 25,668	Units
Full Screen Breakout Reviews (Units are breakout reviews)	413	112	10,249	2,876	19,750	5,130
PDT AMC Assignment (Units are # of AMC Assignmen	ta)		246	8,100	475	15,880
CTIC/AMC Conferences (workyears)			1,367		2,544	
(CTIC packages)			(1,188)	21	(2,194)	40
(AMC Conferences)			(179)	17	(350)	35
Technical Data Acquisition* (data packages)			1,266	14	2,499	24
Engineering Review of Restriction	ve		200	2	400	4
SPIP Contractual Requirements Implementation			eqı	new uipment	eq	new uipment

*Full production technical data is essential for competitive procurement. Technical data of competitive quality ranges in price from \$10,000 for a single drawing to over \$500,000 for complex components. Data costs for items developed at contractor expense are very high.

contracts

contracts

5. Integrated Logistic Support Technical Improvement Program (ILSTIP)

Program funds development of policies and procedures for maintenance support of ships and equipments. There are two major pieces to the program: 1) Integrated Logistic Support Technical Improvement Program (ILSTIP) and 2) Ship Maintenance Improvement Program/Maintenance Improvement Program/Detection Action Response Technique (SMPP/MIP/DART).

ILSTIP - provides for the development of improved policies and procedures for the maintenance support of ships, ships' systems, combat systems and other

III. Performance Criteria and Evaluation (cont'd)

equipments. The program also assesses and analyzes effectiveness in providing maintenance and other types of logistics support of the Fleet, specifies needed support improvements to equipment life-cycle managers and tracks their implementation. In a new FY 1986 effort, a successful ILS overhaul pilot program will be implemented. This program formalizes and automates the industrial activities by tracking ILS identification, acquisition, and delivery status through the SHIPALT development process, hardware acquisition, and final delivery aboard an overhauling ship.

SMPP/MIP/DART - Program's mission is to reduce maintenance costs and increase ship and equipment availability. Each year a select group of projects are pursued with each project taking from 3-5 years to complete. This activity will transfer to the Submarine Ship System Performance Monitoring/Support (SSMPMS) Program in BA 2 in FY 1986.

	FY	1984	FY	1985	FY 1	986
	\$	WY	\$	WY	\$	WY
Total Funding	\$1,300		\$2,069		\$2,186	
77.4MTD	~10		050			
ILSTIP	549	6.5	858	10.3	2,186	25.4
SMPP/MIP/DART	751		1,211		0	
TIOMED Design		2009A1	******		1455 222	
ILSTIP Projects						
Milestones Oriented ILS Plan	53	.6	-	-	50	.6
ILS Handbook	71	.8	_	_	200	2.4
Logistic Review Group	100	1.2	100	1.2	200	1.4
Audits & Findings	•					
Identify Systemic Logistic			•			
Support Problems	50	.6	100	1.2	150	1.8
Auditor Certification	-	-	25	.3	25	.3
INSURV ILS Audits	50	.6	75	.9	100	1.3
Criteria for CFE	-	-	125	1.5	200	2.4
LSA Execution Guidance	_	-	77	.9	100	1.3
Maintenance Planning	-	-			150	1.8
Shipboard ILS Audits	125	1.5	125	1.5	300	3.6
Automated ILS Plans	_	-	25	.3	200	2.2
ILS for Overhaul	100	1.2	206	2.5	511	6.3

III. Performance Criteria and Evaluation (cont'd)

Integrated Logistic Support Technical Improvement Program (ILSTIP) (cont'd)

SMI	PP/MIP/DART *	FY 1984	FY 1985	FY 1986
1.	DART - CASREP and Maint Data Repts	38	35	0
2.	Improved Availability Planning Program	431	240	0
3.	Maintenance Support	52	100	0
4.	Requirements for Intermediate Maint.	192	836	0
5.	Technical Assistance Analysis	38	0	0

^{*} This program is transferred to BA 2, Submarine Ship Systems Monitoring Performing Support (SSMPMS) in FY 86.

G. DIVING

1. Navy Diving Program

The efforts of the Navy Diving Program enable the Navy to conduct safe and efficient diving, salvage, and underwater swimming operations. Funding is utilized for:

- A. Testing and Evaluation of experimental diving equipment, and of human subjects with regard to diving physiology and decompression tables (testing is primarily conducted by the Experimental Diving Unit (EDU);
- B. <u>Fleet Support</u> includes life-cycle management of Navy diving equipment systems, certification of all Navy diving systems, and the provision of technical and logistics support for diving, salvage, underwater swimming and Explosive Ordnance Disposal (EOD) operations;
- C. Development and Revision of Written Material standards, procedures, instructions, manuals, and other diving publications.

Total Funding (\$000) Workyears	FY 1984 \$3,425 14	FY 1985 \$3,599 20	FY 1986 \$4,369 25
A. Testing and Eval	UNITS	UNITS	UNITS
l. # of test dives	2,004	2,203	2,204
2. # of piece of equip tested	55	55	65
3. Surf Spt div tests	440	440	600
4. Diver air purity analyses	250	265	305

III. Performance Criteria and Evaluation (cont'd)

B. Fleet Support Actions

 Div eqp systems certifs. 	250	250	260
2. Field Op evals (# of items)	71	71	80
3. Field Changes	280	280	0
4. Unmanned dives in spt of Flt	450	550	- 550
5. Config mangmnt (systems dev)	30	30	35
C. Written Material Developed or Revised			
1. Div Manual Revs (by chapter)	1	1	1
	1	1	
2. Maint proc dev or rev	12	12	12
Faceplate Mag (# of issues)	4	4	4

H. INACTIVATION OF SHIPS

Inactivations - Surface

Reimburses Maritime Administration (MARAD) for shippard maintenance and temporary lay-up of Navy ships. Funds costs to prepare surface vessels for storage by MARAD. Funds preparation of vessels retired from active fleet for long-term wet berth stowage in Navy facilities.

Inactivations - Submarines

Provides for advance planning and execution of pre-inactivation industrial availablilites of nuclear submarines and for actual inactivation in accordance with established schedules. Cost estimates are for minimum austere inactivations including waterborne layup "as-is", defueling, blanking of sea connections, removing hazardous materials and fluids, removing equipment and repair parts of immediate value to operating forces and placing the ship in a safe condition until the ultimate disposal method is determined.

	FY 198	4	FY 198	<u>5</u>	FY 1986	<u>•</u>
	\$	Unit	s \$	Units	\$	Units
Total Funding Surface	1,428	31	1,553	33	543	29
Total Funding Submarine	18,765		3,079		61,641	
Total Funding	\$20,193		\$4,632		\$62,184	
	26225252 26225252		******	2444 2	(会经报名)	
Surface Inactivations:	1,428		1,553		<u>543</u>	
LSD	900	2	900	2		-
FF		-	226	1		-
ARS		-		-	139	1
ATF	150	1	150	1	150	1
CL	129	2		-		-
Temporary Lay-ups (Number of						
vessels)	249	26	277	29	254	27

III. Performance Criteria and Evaluation (cont'd)

	FY 1984	FY 1985	FY 1986
Submarine Inactivations			
Inactivation of:			
SSN 584	18,765		
SSN 578	•		22,949
SSN 583			20,606
SSN 592			18,086
Advance Planning for:			
SSN 578		3,079	

III. Performance Criteria and Evaluation (cont'd)

I. SHIPYARD MODERNIZATION

1. Shipyard Modernization Program

This provides for a number of programs for enhancing and modernizing the production and industrial capacity of shipyards and ship facilities. Funding supports the Depot Operations Improvement Program (DOIP); computer support for long range workload forecasting and facility equipment requirements; propeller manufacturing and measurement; design, installation, and certification of magnetic silencing equipment at Naval Stations; drydock certification per Military Standard 1625A; productivity improvements; Test, Measurement, Diagnostic Equipment (TMDE) analysis; and capital equipment installation at non-NIF activities. This program also supports the maintenance of inactive nuclear hulls, shipyard physical security, asbestos litigation office, and Forces Afloat Maintenance Improvement (FAMI) engineered time values and intermediate maintenance activities combat support training. In addition, funds covering the procurement of industrial plant equipment at Non-Industrial Activities was transferred to this program starting in FY 1986.

	FY 1984	FY 1985	FY 1986
	\$ Units		
Total Funding	\$11,962	\$10,352	\$42,257
DOIP	950	596	596
(# WY)	(4)	(2)	(2)
Computer Support	816	590	633
(timesharing hrs)	(200)	(275)	(300)
Propeller Profiler Support	0	0	100
(tech improvements)			(1)
Magnetic Silencing	3,596	4,183	6,707
(#systems)	(10)	(10)	(16)
Drydock Certification	1,401	1,400	1,500
(# certified/recertified)	(77)	(77)	(100)
Industrial Operations Improvement	955	850	880
(# WY)	(3)	(3)	(3)
TMDE	370	0	.119
(# WY)	(5)		(2)
Install non-NIF equip	100	0	0
(# equip installed)	(4)		
Maintenance Nuclear Hull	93 0	985	1,500
(# hulls)	(10)	(10)	(12)
Shipyard Security	2,500	0	1,050
(# shipyards)	(8)		(8)
Asbestos Litigation	344	344	0
(# cases)	(8)	(8)	
FAMI-Engineered Time Values	0	1,380	1,380
(# OP Guides New/Validated)		(5,940)	(5,940)
FAMI-IMA Combat Systems	0	24	1,321
(# Manweeks Training)		(11)	(590)
Industrial Plant Equipment	0	0	26,471

Funds covering Industrial Plant Equipment transferred from OPN BA1 and BA4 effective FY 86.

III. Performance Criteria and Evaluation (cont'd)

J. VISIBILITY AND MANAGEMENT OF OPERATIONS AND SUPPORT COSTS (VAMOSC-SHIPS)

VAMOSC-SHIPS is a Department of the Navy management information system which provides for the collection and display of annual operating and support (0&S) cost and related data for active fleet ships. It is the Navy's single source which provides the full range of this data within an approved data element structure. VAMOSC-SHIPS data on actual (vice planned/budgeted) 0&S costs are a valuable resource for a wide range of analytical and decision-making purposes. These include DSARC and DNSARC deliberations concerning new system acquisitions where support issues play a vital part and influence decisions affecting the composition or force structure of the fleet. Also included are studies and analyses aimed toward obtaining more value (e.g. readiness) per logistic dollar spent, better logistics support for deployed systems (sustainability), life cycle cost estimating, development of Integrated Logistic Support plans, and trade-off analyses of reliability improvements vs. life cycle costs. VAMOSC-SHIPS reporting capability is being expanded to include 0&S cost and related data at the shipboard system level as required by OSD, ASSTSECNAV, CNO and users. VAMOSC-Ships collects data from many data sources, Navy-wide, and currently produces two standard annual reports of ship level 0&S costs, one annual report on maintenance data for some 14,000 shipboard equipment items, and numerous special on-demand reports for users of the data.

	FY	1984	FY :	1985	FY	1986
	\$	WY	\$	WY	\$	WY
Total Funding	623	10.7	561	8.9	652	10.2
_						
Management Support	305	5.5	290	5.0	334	5.5
Data Sources Support	70	.7	104	1.1	103	1.1
Systems Operation	54	1.0	54	.9	65	1.1
Total System Design Spt	.110	2.0	105	1.8	121	2.0
Product Improvement	84	1.5	8	.1	29	.5

III. Performance Criteria and Evaluation (cont'd)

K. DATA SUPPORT

Provides information and data systems designed to improve the life cycle management of ships and ship weapon systems. This is primarily accomplished through the NAVSEA Automated Data Systems Activity (SEAADSA). Incorporated with Data Support in FY 1985, SEAADSA is the NAVSEA central design agent for automation technology and ADP systems. SEAADSA also performs management reviews of proposed ADP systems, equipment, services, applications of ADP software and ADP installations in NAVSEA facilities thereby enhancing NAVSEA management capabilities.

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$1,976	\$4,263*	\$4,885
Workyears	-	80	80
	******	*********	
Activities Supported:			
Activities Supported: Data Support (Management Support)	858	340	426

^{*} SEAADSA direct funding is included in Data Support beginning FY 1985.

L. UNDERUTILIZED PLANT CAPACITY

This program provides a subsidy to Naval weapon stations, allowing them to maintain excess plant capacity which could be used in the event of war. The subsidy for a facility is the amount of funds needed to maintain 85 percent of maximium capacity, minus the amount of NIF funds budgeted for that year. Funding this program in an amount other than that required results in a gain or loss in the Accumulated Operating Results (AOR) of the ordnance activity fund.

	FY 1984	FY 1985	FY 1986
Total Funding	\$ 90,095	\$ 110,129	\$ 100,199
WPNSTA Concord	13,398	17,366	17,362
WPNSTA Earle	11,449	13,165	12,048
WPNSTA Charlestown	1,252	825	995
NAVWPNSUPPCEN Crane	7,762	12,265	9,760
NAVORDSTA Indian Head	23,333	23,336	19,357

III. Performance Criteria and Evaluation (cont'd)

NAVUSEAWARENGSTA Keyport	0	1,800	-
NAVORDSTA Louisville	9,735	12,873	13,181
WPNSTA Seal Beach	11,088	14,476	13,676
WPNSTA Yorktown	12,078	14,023	13,820

The funding for each facility is an accounting transfer which allows the facility to reduce the amount of NIF overhead funding charged as part of its stabilized rate. This allows the facilities to compete for work without being penalized by having to charge customers for maintaining capacity which bears no relation to the work the facility will perform for the customer. As such, no performance criteria units are appropriate for this program.

M. OTHER SUPPORT PROGRAM

The Other Support Program provides funding for four programs. These programs are:

- NAVSEA Technical and Exhibition Ship Model Program and Navy Exhibit Chicago Museum of Science and Industry.
- 2. Leased bachelor quarters for the Combat System Test Center, Ronkonkoma, N.Y.
- 3. Beneficial Suggestion Awards Program.
- 4. Maintenance Interservicing Support Office (MISO) which provides a central point of contact for all NAVSEA depot level maintenance matters to ensure that adequate capability and capacity exist for depot level repairable workload projections for all designated overhaul points.

Effective in FY 1986, the Navy Leased Quarters, Benefical Suggestion Awards and the Ship Model Programs are transferred to the Field Operations Activity Group, Operational Support Field Sub-Activity Group.

Total Funding (\$000)	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
	\$686	\$612	\$563
 Ship Model Program/#models Navy leased quarters/#Apts Beneficial Suggestion Awards MISO/#Interservice Agreements Designated Overhaul Point/ Management Information Systems* 	295/1,390 24/ 3 82/ 114 285/ 35	238/1,398 26/ 3 77/ 124 271/ 40	0 0 0 0 310/0

^{*} This activity was transferred from EOC Coordination in BA 2.

IV.	Per	sonnel Summary (End	Strength). FY 1984	FY 1985	FY 1986
	A.	Military	<u>70</u>	<u>75</u>	<u>75</u>
		Officer Enlisted	12 58	13 62	13 62
	В.	Civilian	<u>13</u>	106	106
		USDH	13	106	106

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group: Budget Activity: Claimant:

Engineering & Support Services
7 - Central Supply and Maintenance

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed

This activity group provides for technical and engineering services for continued improvement of equipments and repair actions of systems operating in the Fleet. Other specific activities include:

- inspection and refurbishment of high value reactor plant components and equipment
- technical updates of publications, manuals, and ship documentation
- development of programs and policies to assure quality, reliability and maintainability of ships and weapon systems
- performance of acoustic trials and engineering changes to reduce submarine signature levels.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout

			FY 1985		mr. 100c	
	FY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	fy 1986 Budget Request	CHANGE
Qun Weapons Sys Flt Spt	3,406	5,090	5,063	4,369	4,154	-715
Ordnance Handling Support	986	1,281	1,280	1,142	1,452	310
HARPOON	4,470	7,845	5,157	5,027	6,776	1,749
Combat Systems Eng Spt	4,992	7,553	7,365	5,413	4,575	-838
CIWS Close-in Won Spt	9,478	8,241	8,077	7,560	9,237	1,677
Qun F/C Systems Fleet Support	6,699	8,875	7,972	7,310	6,653	-657
SEMCIP/EMI Control	11,832	15,923	15,246	15, 220	15,207	-13
24 Electronic Repair Prog	388	0	0	Ø	0	8
Electronic Test & Repair	127	861	776	595	2,138	1,543
NTDS	2,753	3,443	3, 299	2,975	2,178	-797
Mine Logistics Support	2,898	4,427	3,195	2,526	4,225	1,699
Sonar Systems Support	3,551	9,077	8, 231	6,096	6,205	109
BOD/Swimmer Weapons	3,285	6,283	5,959	5,834	3,432	-2 ,482
Weapons Control Switchboards	931	1,093	1,063	977	1,368	391
REM Reliab/Maintainability	831	888	874	823	530	-293
GIDEP	795	419	382	722	339	-383
Total Snip Testing/Production	2,283	585	536	1,822	1,649	-173
Inservice Explosives	529	580	565	518	448	-78
Technical Publications	19,773	20,916	20,321	19,722	18,269	-1,453
Inspection & Testing	1,932	2,879	2,822	2,171	2,052	~119
Ship Design Tech Reg Doc	1,835	2,225	2,109	1,952	1,868	-84
Steam Prop Plant Improvement	7,106	9,205	8,294	7,575	5,303	-2,272
Underway Replenishment	4,758	5,934	5,720	11,866	4,367	-7, 499
Habitability	315	543	532	391	382	-9
Ships Trials & Tests	7,890	2,851	2,831	2,668	4,933	2,265
Ship Systems Engineering	19,627	17,569	16,959	17, 368	16,757	-611
DSSP	12,135	14,969	14, 364	13,857	16,969	3,112
Submarine Noise Reduction	10,055	15,628	14,609	14,747	10,957	-3,790
Quality and Reliab Assurance	2,609	1,713	1,606	1,498	2,137	639
Nuclear Propulsion Tech Log	47,490	77,822	76, 295	75,047	81,749	6,702
TOTAL, ENGINEERING SPT SERVICES	195,159	253,118	241,492	238, 291	236,309	-1,982

B. Reconciliation of Increases and Decreases

1.	FY	1985 Current Estimate	-	\$238,291
2.	Pri	cing Adjustments		3,748
	A. B. C.	Stock Fund 1) Non-Fuel Industrial Fund Rates Other Pricing Adjustments	(-59) -59 (-1,882) (5,689)	·
3.	Pro	gram Increases		31,431
	A.	Other Program Growth in FY 1986 1) Ordnance Handling Support Increase in this program provides for the repair of 9 additional LHA pallet transporters.	(31,431) 858	
		2) HARPOON Twenty-four additional active fleet ships and three new HARPOON variants require additional support. In particular, the new variants require technical manual, logistics documentation, and planned maintenance support updates for backfit of the AN/SWG-IA system onto the following ship classes: CG 47, PHM, FFG-7, FF 1052, and BB 61.	1,698	
		3) Close-In Weapon Support Due to the increase in the number of systems becoming operational (an additional 69 in FY 1986), increased field service support for inservice engineering and other engineering is required to maintain the level of support required for fleet introduction.	4,499	
		4) Gun Fire Control Systems Fleet Support Realignment within program provides additional support for the MK 68 and MK 56 Gun Fire Control Systems (392). Additional support also provided for night vision devices (65).	457	
		5) Electronic Test and Repair Realignment of the TMDE engineering portion from TMDE/METCAL Maintenance Support to this program (733). Additional increase of 5.5 WY's in 2M Electronic repair (466). Increase (434) to implement the Integrated Test Equipment Managemen Information System (TEMIS).	1,633	

B. Reconciliation of Increases and Decreases (cont'd)

for Mine Logistics

In FY 1986, major tests and evaluations will be undertaken on improved mine flight gear components, and mine power sources, specifically, the increase will fund 5 additional readiness improvements, 3 additional operational tests, 2 more system evaluations, 3 more mine delivery tests, maintenance of 1 additional technical document and packaging, handling and storage of 3 additional tasks will provide support for mine systems to be introduced into the fleet in FY 1985 and FY 1986.

233

625

368

529

- 7) Sonar Systems Support
 The number of LAMPS MK III supported increases
 from 21 in FY 1985 to 28 in FY 1986. As a
 result, additional engineering efforts are required to maintain a ready operational status.
- 8) EOD/Swimmer Weapons
 Increase covers the costs of introducing new
 EOD equipment to the Fleet; realigned from Special
 Combat Support Forces Operations (CINCLANTFLT,
 300K and CINCPACFLT 325K) to the in-service
 engineering portion of this program.
- 9) Weapons Control Switchboards
 Increases in this program will provide support
 for ISEA fire and smoke detectors, Life Cycle
 Support facilties, Inter-Voice Communications
 System (IVCS), and Interior Communications
 (IC) test and evaluation agent. The expansion
 of Fleet IC assets, associated with the reactivation of BB-61 class and the introductions
 of DD-963 and FFG-7, dictates increased
 engineering support and maintenance assistance.
- 10) Technical Publications

 Reprint an additional 1,924 technical manuals
 (fully funds this effort) (1,456). Convert an additional 300 Advance Change Notices (803).

 Reprint an additional 14 Ordnance Publications (209). Utilize an additional 3 technical manual Maintenance WYs (241).
- 11) Steam Propulsion Plant Improvement
 Increase partially funds additional EOSS
 Maintenance since the number of ships with EOSS
 installation grows from 299 at the end of FY 1985
 to 345 at the end of FY 1986 (266); increased
 training support is required to fund rising costs
 of overhaul and depot level repairs at the
 Propulsion Plant Training Facility at Great Lakes
 (263).

B. Reconciliation of Increases and Decreases (cont'd)

12) Ships Trials and Tests
Ship Hardening - Increase provides
for the development of
engineering fixes to the highest priority shock
deficiencies discovered during the shock test
of the USS JOHN F. KENNEDY (CV 67). The
increase also provides for the development
of a shock awareness crew training program and
the preliminary development of a shipboard
power distribution system. These efforts will
greatly enhance ship survivability by minimizing
the equipment failure resulting from a combat
induced shock.

2,455

13) Ship Systems Engineering

Propulsion: Increase provides for the initiation
of the Submarine Shaft Seal maintenance downtime
reduction Program. (728)

Damage Control: increase provides for in-service
engineering and logistic support for damage control,
chemical defense, personnel protective survival,
rescue equipment and fire protection. (2,394)

- 14) Deep Sea Submergence Project

 Funds the maintenance operation of the NR-1, the only nuclear powered deep-diving research and oceanographic submarine in service (2,824); and funds the Deep Sea Program, a new initiative to provide mission support to increase the operational tempo of deep ocean research, evaluation and recovery of assets (1,538).
- 15) Quality and Reliability Assurance
 Program increase due to additional quality assurance
 (QA) requirements:
- 713 additional shippard and SUPSHIP personnel to be trained for QA and ship overhaul process assessment.
- 2 additional on-site reviews of contractor plants.
- 30 additional equipment pieces analyzed using engineering data base.
- 1 additional Ship Repair Facilities (SRF) to be accredited and trained for QA.
- 3 additional ship models produced.
- 16) Nuclear Propulsion Technical Logistics 5,587 \$4.5 million of the growth is to support essential ongoing work at Naval Nuclear Propulsion Laboratories which was previously budgeted in R&D, but which has been transferred to the O&M,N budget for FY 1986 and later years. In addition, \$1.1 million is required to support:

- B. Reconciliation of Increases and Decreases (cont'd)
 - a. Additional LOS ANGELES and TRIDENT Class submarines and NIMITZ Class aircraft that are entering the fleet.
 - b. LOS ANGELES and NIMITZ Class ships undergoing their initial overhauls.
 - c. Preparation for initial refuelings of CGN 38 Class nuclear powered cruisers.

The above work is in addition to continuing essential support of the Navy's existing SSN's and POSEIDON SSBN's whose increasing age necessitates a higher level of support work.

4. Program Decreases

-37,161

- A. Other Program Decreases in FY 1986
- (-37,161)

-838

- 1) Gun Weapons Systems Fleet Support
 Decrease will not allow accomplishment of:
 correction of safety hazards in the projectile
 hoist on the 16"/50 turrets; engineering improvements for MK 45 and MK 75 gun systems;
 in-service support for the MK 3 gun systems
 and the MK42/MK 88 machine gun; and correction
 of fleet RM&A and safety deficiencies.
- 2) Ordnance Handling Support

 In FY 1986, no funding is planned for training of ships' crews in ordnance handling and stowage practices. In addition, the establishment of the depot capability for LHA pallet transporters will be completed in FY 85, so further funding is not required.
- 3) Combat Systems Engineering Support -1,008
 Reflects a decrease in pre-installation engineering support of 9.2 workyears as well as a decrease in funding of program planning for the installation of combat system management information system alterations.
- 4) Close-In Weapons Support -3,072
 In FY 1985, Block I System Testing will be completed, eliminating the requirement in FY 1986.
- 5) Gun Fire Control Systems Fleet Support
 Reduced level of engineering support will be
 provided for the MK 86 Gun Fire Control Systems.
 In addition, support for gun fire accuracy and
 range tables will also be reduced.

В.	Reconcilition	of	Increases	and	Decreases	(cont'd)
						(

-		
	6) SEMCIP/EMI Control Decrease will provide less funding for electro- magnetic compatibility surveys: planned surveys will be less comprehensive than in FY 1985. Five fewer ships will be surveyed as part of the Surface Waterfront Corrective Action Program to correct operationally degrading electro-magnetic inter- ference problems.	~508
	7) Electronic Test and Repair Efforts to standardize automatic testing equipment will not be funded in FY 1986.	-104
	8) Navy Tactical Data Systems In FY 1986, only 1 set of software maintenance and test results will be distributed; 90 fewer field change proposals will be reviewed and implemented. In addition, neither AN/UYQ-21 support nor RM&A equipment requires support in FY 1986.	- 918
	9) Sonar Systems Support	-387
	Reflects a planned decrease in the number of Probe Alert installations (from 88 in FY 1985 to 50 in FY 1986). In addition, decreased support is provided for operational sonars on the 2 SSN-608's.	
	10) FOD/Gridener Manage	_3 005
	10) EOD/Swimmer Weapons Decrease in maintenance effort of 70% and in-service engineering effort of 60% for (1) Army, Navy, Air Force and Marine Corps Explosive Ordnance disposal forces; (2) SEAL Weapons Systems; and (3) Advanced Marine Biological Systems assigned to EOD Mobile Units THREE and FOUR.	-3,085
	11) Reliability and Maintainability The environmental stress screening program will be reduced. Three standard power supply design reviews will be cancelled. Distribution of Commanding Officer Narrative Reports is not planned for FY 1986.	-313
	12) GIDEP 998 fewer technical reports will be processed and 12 fewer microfilm reels will be processed.	-400
	13) Total Ship Test/Program Decrease will provide support for one less ship class during industrial availability.	-210

14) <u>In-Service Explosives</u>
Decreased funding for maintaining and updating explosive loading documentation.

-65

ctivity Group: Engineering Support Services (cont'd)	
Reconciliation of Increases and Decreases (cont'd)	
15) Technical Publications Update 55 fewer technical manuals.	-3,344
16) Inspection and Testing Decrease will reduce Qualified Product List Testing	-212
17) Ship Design Technical Requirements Document Decrease primarily affects updating of standard type drawings. Approximately 19% fewer standard type drawings will be updated or developed.	-123
18) Steam Propulsion Plant Improvement Decrease (-3,049) in EOSS Development results as the program nears completion in FY 1986 (from 47 ships in FY 1985 to 18 in FY 1986). Decrease in Documentation Support (-78) results in the re- vision of the On-Line Verification implementation schedule.	-3,127
Program acceleration in FY 1985 has reduced back-logged requirements and engineering problems to be resolved (-5,321). Other program decreases will: (1) result in the termination of NAVSEA engineering support for the elevators at the end of 1st quarter 1986; (2) equipment safety and reliability improvements will not continue; (3) operational availability will decline to a maximum of 30% by end of FY 1986. (-2,660)	-7,981
20) Ships Trials and Tests Inclining Experiments: Two less inclining experiments.	-201
21) Ship Systems Engineering Hull: Decrease reduces engineering technical support of Stern Gate Improvement Program. (-28) Auxiliary: Decrease reduces technical support for the various DART programs. (-1,098) Electrical: Electrical Power Interface Program (EPIC) is being gradually phased out starting in FY 1986. In addition, funding is reduced for Electric Distribution of IC Sensor System. (-1,256) DD-963: FY 1986 will consist only of execution of plans to implement the Class fixes. Reduces HP Air Systems Support. (-1,033) Material Engineering: Delays preparation of Corrosi	on.
Control Manual and documents for 4 classes of ships	to

Propulsion: Reduces in-service engineering in support of boiler overhauls (-626).

FY 1987. (-378)

- B. Reconciliation of Increases and Decreases (cont'd)
 - 22) Deep Sea Submergence Project

 Decrease reflects reduced efforts in the Deep Submergence Rescue Vehicles (DSRV) Program (-226);
 Deep Submergence Vehicles Program (-715); Submarine Rescue Ship (ASR-21 Class) Program (-235) Unmanned Vehicle Systems (-210); and Engineering and Technical Support (-162).
 - 23) Submarine Noise Reduction

 Decrease will delay by one year engineering investigations and study tasks of known deficiencies which are preparatory to silencing SHIPALT development and hardware procurement. Program technical documentation and development of noise reducton training material for fleet and industry personnel will be deferred (-1,666). Decrease also reflects two fewer post overhaul a acoustical trials and five fewer SSN EOC acoustical trials (-1,746).
 - 23) Other Decrease
 a) Habitability (-26)
 - 5. FY 1986 President's Budget Request

\$236,309

-26

III. Performance Criteria and Evaluation

A. SURFACE WARFARE SYSTEMS

1. Gun Weapons System Fleet Support

Provides engineering and logistics support to maintain the operational readiness and safety of inservice gun systems installed in combatant ships and training facilities. Funding is provided to correct design and safety defects, deficiencies in technical documentation, and maintenance procedures.

Total Funding	FY 1984	FY 1985	FY 1986
	\$3,406	\$4,869	\$4,154
	\$/Units	\$/Units	\$/Units
No. of Systems Supported (Minor caliber weapons not included)	570	581	599
Efforts Funded: 1. 16"/50 and 5"/38 Gun	\$ 253/ 74	\$ 300/77	\$ 250/ 86
Sys Spt 2. Minor Caliber Weapons 3. MK 75 Gun Sys Supt	490/909	747/945	623/996
	535/ 52	797/ 62	680/ 69
4. MK 42 Gun Sys Supt	934/124	1,445/127	1,241/127
5. MK 45 Gun Sys Supt	612/104	995/106	870/110
6. 3"/50 Gun Sys Supt7. Smoke Obscuration	382/216	585/209	490/207
	200		

2. Ordnance Handling

Provides technical support and engineering functions to ensure safe handling, shipping, and storage or explosive ordnance. Also provides for depot level overhaul for equipment on LHA-1 class ships.

	FY 1984	FY 1985	FY 1986
Total Funding	\$986	\$1,142	\$1,452
Efforts Funded (\$/Workyears)			
1. LHA Pallet Transporter (No. of Transporters)	-	93/1	950/10
2. Depot Overhaul Capability	300	407	-
3. In-Service Engineering	266/2.9	264/2.9	295/3.7
4. Training Support	200/2.2	171/2.2	-
5. Material Handling Equipment Engineering Support	75/ .8	70/ .9	70/ .9

III. Performance Criteria and Evaluation (cont'd)

6.	Stowage	53/ .6	54/ .7	54/ .7
7.	Railcar/Truck/Container Loading	54/ .6	44/ .6	44/ .6
8.	Armament and Weapons Support Engineering	38/ .4	39/ .5	39/ .5

3. HARPOON

The program provides for introduction and follow-on support of the HARPOON Weapon System, a long-range anti-ship missile system, into submarines and surface combatants. It includes support of the command and launch system and the test set/simulator for all platforms.

O&M,N funds support the following number of active fleet ships and HARPOON variants:

	F	Y 1984		FY	1985		FY]	L986
Surface Ships	Ships 178	Variant	8 :	Ships 196		lants l6	Ships 205	Variants 19
Submarines	68	8		72		8	203 87	8
Total	246	$\frac{3}{22}$		268	7	24	292	27
		FY 1984		FY	1985	5	FY 198	36
		\$	WY	\$		- WY	\$	_ WY
Total Funding		4,470	73	Š,	027	77	6,776	103
In-Service Engineering		1,148	19	1,	307	20	1,762	27
Fleet Support		203	4		201	3	271	4
Integrated Logistics		1,345	23	1,0	608	25	2,168	33
Program Tech Support		1,603	24	1,	659	25	2,304	35
Quality Assurance		114	2		101	2	135	2
Maintenance		57	1		75	1	68	1
Test Development		-	_		76	1	68	1

III. Performance Criteria and Evaluation (cont'd)

4. Combat System Engineering Support

Provides the planning, combat system level design, pre-installation engineering, ship overhaul, and post overhaul support for all elements of surface ship combat system conversion and modernization programs.

		FY 1984	FY 1985	FY 1986
Tot	al Funding	\$4,992	\$5,413	\$4,575
Eff	orts Funded			
1.	Pre-Installation Engineering Support (Workyears)	2,727/40	3,038/44.2	2,412/35.0
2.	Ship Integrated Defense por- tions of Combat System Ship Qualification Trials (# trials)	664/10	766/11	880/11
3.	Training and Documentation (Workyears)	508/7.7	535/8.0	459/7.0
4.	Program Planning Combat System Management Information System (# of SHIPALT Installations)	1,093/640	1,074/1,047	824/1,051
	(Planning costs wary depending on complexity of SHIPALT)			

III. Performance Criteria and Evaluation (cont'd)

5. Close-In Weapons Support

Provides analysis of operational and performance data of the Close-In Weapons System. In FY 1985, Block I System Testing will be completed. The program also provides for fleet support and technical assistance to SHIPALT installing activities and ships having maintenance problems beyond the ability of the organizational maintenance personnel.

	FY 1984 \$ /Units	FY 1985 \$ /Units	FY 1986 \$ /Units
Total Funding	\$9,478	\$7,560	\$9,237
No. of CIWS supported	205	278	347
In-Service Engineering Agent Support (WY)	\$1,939/27.7	\$3,862/54	\$6,812/ 94
Fleet Operational Test & Evaluation (WY)	6,228/89	3,000/42.8	
Other Engineering Suppt (WY)	1,311/18.9	698/ 9.0	2,425/30

6. Gun Fire Control System Fleet Support

Provides engineering and logistics support for maintaining the operational readiness and safety of in-service gun fire control systems installed on combatant ships and in training facilities. Funding is provided to correct design and safety defects, deficiencies in technical documentation, and improve maintenance procedures.

Total Funding	FY 1984 \$6,699 FY 1985 FY 1986 \$6,653
Efforts Funded	
1. MK 86 Fire Control	4,987/57 5,038/57 3,975/59
(no. of Systems supported)	
MK 68 Fire Control (no. of Systems supported)	1,224/88 1,667/88 2,100/88
3. Gun Fire Accuracy	174 227 178
4. Range Table	103 152 100
5. Night Vision Devices	211 226 300

III. Performance Criteria and Evaluation (cont'd)

B. ELECTRONIC SYSTEMS

1. SEMCIP/EMI

Shipboard Electromagnetic Compatibility Improvement Program/Electromagnetic Interference provides corrective action to ships in the fleet to rectify onboard electro-magnetic compatibility (EMC) and interference (EMI) problems which degrade mission warfighting capability and are beyond the capabilities of a ship's force to diagnose and repair.

	FY 1984	FY 1985	FY 1986
Total Funding	\$11,832	\$15,220	\$15,207
	*****	*****	
Efforts Funded:			
EMC Improvement	\$5,535	\$4,763	\$4,725
Ship Surveys (EMC)	13	9	10
Problem Investigation	67	100	100
Radiation Hazard Surveys	25	25	25

EMC Improvement provides quick engineering maintenance response to EMI problems, full scale surveys, documentation of problem investigation and resolution management.

Surface Waterfront Corrective			
Action Program (WCAP)	\$2,696	\$4,855	\$4,802
(including Carriers)			
Ship Surveys	65	85	80
Tech Assists	160	165	160
Shipboard Training	380	200	250
Readiness Assessment	84	85	85
Submarine Waterfront			
Corrective Action Program			
(WCAP)	\$ 550	\$ 316	\$ 400
Ships Surveys	10	20	20
Tech Assists	20	20	22
Shipboard Training	20	20	22

Provides pre-deployment corrective action and quick response to ships and submarines with operationally degrading EMI problems.

Industrial EMC	\$1,176	\$2,900	\$2,900
Ships Events	30	60	60

Improves ship repair in industrial process through training, surveys, documentation, and repair practices.

III. Performance Criteria and Evaluation (cont'd)

SEMCIP/EMI (cont'd)

	FY 1984	FY 1985	FY 1986
Combat System/Surface-Air			
Frequency Management Program (CSFMP/S-AFMP)	\$729	\$1,101	\$1,100
Updates	48	60	60

Provides frequency management EMC criteria for surface missile systems/ships deployed in task force/multi-ship EM environment to prevent missile loss and homing on friendly forces. Provides EMC criteria for frequency management of ship-to-air radar systems which degrade due to EMI.

Electromagnetic Readiness	\$1,046	\$1,200	\$1,200
Ship INSURV Support	140	145	145
Ship Discrepancy Documents	60	75	75

Provides EMI support to INSURV during acceptance trials and deficiency documentation.

Shipboard Electronic System	100	85	80
Evaluation Facility			

2. 2M Electronics Repair Program

Provides tools, training, and technical data to the fleet to enable shipboard and intermediate maintenance activity 2M technicians to perform high reliability repairs on electronic parts.

	FY 1984	FY 1985	FY 1986
m. 1 m 11	\$ / WY		
Total Funding	\$388 		-
Efforts Funded:			
Certification	\$180 2.9)	
Engineering	130 2.0)	
Curriculum	78 1.2		

Transferred to Electronic Test and Repair in FY 1985 and outyears.

III. Performance Criteria and Evaluation (cont'd)

3. Electronic Test and Repair

The Electronic Test and Repair Program provides for Navy automatic testing requirements, miniature/microminiature emergency repair capability for printed circuit board (PCBs) and identification and life cycle management of all Test Measuring and Diagnostic Equipment (TMDE) at the organizational and intermediate maintenance levels.

		FY	1984	FY	1985	FY :	1986
		\$7	WY	\$ 7	WY	\$ 7	WY
Tot	al Funding	\$127	1.7	\$595	7.5	\$2,138	25.4
a.	2M Electronic Repair	-	-	491	6.1	971	11.6
Ъ.	TMDE Engineering	-	_	-	_	733	8.7
c.	Test Equipment Management						
	Information System	-	_	-	-	434	5.1
đ.	Automatic Test Equipment	127	1.7	104	1.4	0	

4. Navy Tactical Data Systems

Provides the engineering support for existing and new tactical data systems being used by the fleets. This support includes distribution, updating, and validation of maintenance and test software; review and revision of manuals; and diagnostic program distribution.

Total Funding	FY 1984 \$/Units \$2,753	FY 1985 \$/Units \$2,975	FY 1986 \$/Units \$2,178
Number of Ships Supported	136	143	151
Maintenance & Test Software distributed or programs updated/maintained	\$737/3	\$790/4	\$540/1
Field Change Proposals Reviewed & Implemented	983/197	1,058/210	700/120
Fleet Readiness Visits	460/45	460/45	460/46
Combat System Maint. Training Facility Management (Workyears)	95/1.5	95/1.5	95/1.5
Document Review & Revision (Workyears)	478/8.0	422/7.0	383/5.5
AN/UYQ-21 Support (Workyears)	-0-	75/1.0	-0-
RM&A Improvement New Equipment Introduced	-0-	75/1	-0-

III. Performance Criteria and Evaluation (cont'd)

C. UNDERSEA WARFARE SYSTEMS

1. Mine Logistic Support

Provides analyses of operational and design deficiency problems affecting inservice mines, destructors, and mine countermeasures systems, components, and equipment.

The Mine Warfare Engineering Program is the major source of funding for Engineering analysis and correction of operational and design deficiency problems affecting not only inservice mines and destructors but also inservice mines countermeasures systems, components and equipments.

	FY 1984 \$ /Unit		
Total Funding	\$2,898	\$2,526	\$4,225
Efforts Funded			
1. Readiness Improvements			
\$/# of Systems	\$1,180/12	\$541/10	\$1,053/15
2. Operational Data			
Collection and Analysis			
\$/# of Tests	150/2	320/4	553/7
3. System Evaluation			
and Test	_		
\$/# of Tests	121/2	411/4	750/6
4. Mine Delivery System			
Tests & Analysis			
\$/# of Tests	395/5	351/5	523/8
5. Documentation and			
Technical Support	17515	206 12	16011
\$/# of documents	475/5	286/3	468/4
Maintained			
6. Mine Warfare Training	450/2	359/5	46144
\$/# of Training Tests	450/3	337/3	461/4
7. Packaging, Handling and Storage	127/4	258/3	417/6
and affires	14//4	430/3	41//0

III. Performance Criteria and Evaluation (cont'd)

2. Sonar Systems

Provides funding for (1) Surface Sonar Systems, (2) Submarine Sonar Systems, and (3) Sonar System Command and Control.

	FY 1984	FY 1985	FY 1986
Total Funding	\$3,551	\$6,096	\$6,205

a. Surface Sonar Systems

The LAMPS MK III is an integrated aircraft and shipboard weapons system. This program provides the operation and maintenance support for sonars, data links and other data handling display and communication equipment.

Funding	FY 1984 \$1,536	FY 1985 \$4,260	FY 1986 \$4,677
Number of LAMPS systems supported	6	21	28
Efforts Funded: (\$/WY)			
1. Interim Depot Spt.	215/2.1	160/ 1.6	389/ 3.9
2. In-Service Tech. Spt.	354/3.5	2,256/22.5	2,450/24.5
3. Contract Eng. Tech. Support	138/1.3	232/ 2.3	200/ 2.0
4. Soft & Configuration Spt.	630/6.3	200/ 2.0	188/ 1.9
5. Firmware Maint, Config. Mgmt.	46/ .5		
6. Follow-on Test & Evaluation		962/ 9.6	1,000/10.0
7. Prog. Mgmt. Spt.	153/1.5	450/4.5	450/ 4.5

b. Submarine Sonars

Provides life cycle support for the AN/BQR-15 and AN/BQR-19 Sonar Systems, including performance evaluation, on-call services, parts repair and repair management for these sonars installed on the two operational SSN-608 Submarines.

Funding	FY 1984 \$1,132	FY 1985 \$522	FY 1986 \$477
Number of Operational Months Supported	36	24	24
Efforts Funded: 1. Operational Support AN/BQR-15 AN/BQR-19	\$555	\$337 \$100	\$300 \$89
 System Refurbishment AN/BQR-15 	\$ 477/ 1	-	
3. Strategic Sys. Proj. Spt.	\$100	\$85	\$88

III. Performance Criteria and Evaluation (cont'd)

C. <u>Sonar System Command and Control</u> This program provides in-service engineering support for all underwater acoustics communications equipment in the Fleet, installation of Probe Alert equipment, and installation of technical improvements (engineering changes) to underwater acoustic communications equipment.

		ts \$/Unit	s \$/Units
Funding	\$883	\$1,314	\$1,051
 Probe Alert Fleet Support (WYS) 	\$197/2	\$311/3	\$322/3
Probe Alert Installations (Number of installations)	320/36	707/88	403/50
3. Fleet Support for Other Acoustic Communications (Workyears)	366/5	296/4.5	306/4.5
4. AN/WQC-2A (Underwater Telephone) Change Installation (Number of installations)	/-	-/-	20/8

3. Explosive Ordnance Disposal/Swimmer Weapons Support (EOD/SWS)

This program provides the forces of all military services with the documentation, in-service engineering support, and equipment maintenance required to accomplish their EOD missions. The swimmer weapons support program provides engineering and maintenance services for unique explosive weapons and ordnance equipment required by Navy Special Warfare units for missions in hydrographic reconnaissance, underwater attack, and direct action.

Total Funding	\$3, <u>285</u>	\$5, <mark>834</mark>	\$3, 432
1. Maintain Joint Service EOD Procedure Manuals (WY/manuals)	\$1,287 18.5/815	\$1,366 19/1,075	\$1,400 19/1,090
 Perform In-Ser- vice Engineering Actions (WY/actions) 	\$1,743 19.8/645	\$2,789 38/1,155	\$1,666 23/1,050
3. Maintenance of systems (WY/systems)	\$ 110 1.4/91	\$1,129 12/261	\$ 292 2.6/102
4. Safety modifications of SWS devices (WY/modifications)	\$ 30 0.6/1	\$ 40 0.6/1	\$ 0
5. Logistic Support for Systems (WY/tasks)	\$ 115 1.6/8	\$ 160 1.8/12	\$ 74 1/5
6. Provide EOD allowance list tools (sets of tools)	\$ 7 ⁰ 193	\$ 350 49	\$ 0

III. Performance Criteria and Evaluation (cont'd)

4. Weapons Control Switchboard

This program supports changes in weapons control switchboards which are the result of updating weapons systems. Increase in this program will be used to provide support for ISEA fire and smoke detectors, Life Cycle Support facilities Inter-Voice Communications System (IVCS) and Interior Communications (IC) test and evaluation agent. The expansion of Fleet IC assets, associated with the reactivation of battleship and the introductions of new ship classes such as DD-963 and FFG-7, dictates increased engineering support and maintenance assistance.

Total Funding	FY 1984 \$ / WY \$931/16.1	FY 1985 \$ / WY \$977/16.8	FY 1986 \$ / WY \$1,368/21.0
Total Engineering Services for Wpn Ctrl Swbs	\$931	\$977	\$876
In-Service Engineering Support for Voice IC			\$492

D. OTHER COMBAT SYSTEMS SUPPORT

1. Reliability and Maintainability

Provides for the development and implementation of reliability, maintain-ability, and quality (RMQ) engineering programs which have common application for all ships and combat systems.

Total Funding	FY 1984 \$831	FY 1985 \$823	FY 1986 \$530
1. Acquisition/Design Support	229	326	380
Reliab Eng Analyses Performed	14	18	23
Mission/Env Profiles Dev	2	3	0
Reliab Models Dev	2	2	0
2. Production Design Support	299	317	150
Electro Static Discharge Prop Solution/ Fail Mech Determination	5	5	5
Std Power Supply Specs Review Revised	2	1	1
Standard Power Supply-Design Review Stress Screening Tech. Eval./Data	5	5	2
Analyzed/Specs Dev	28	. 29	6
3. Reliab & Maint & Avail			
Fleet Support	303	180	0
Conar (# of extracts dist in 000's)	77	0	0
Deficiency Corrective Action Program Prop Analyses/Solutions	108	140	0

III. Performance Criteria and Evaluation (cont'd)

2. Government/Industry Data Exchange Program (GIDEP)

Provides for acquiring, storing, retrieving, and disseminating test and usage information on parts and components. This information is maintained in specialized data banks which are available to both government and industry.

	FY 1984	FY 1985	FY 1986
Total Funding	\$795	\$722	\$339

	Units	Units	Units
Technical reports processed	2,274	1,885	887
Microfilm reels processed	25	23	11

3. Total Ship Testing Program

Provides ship construction test methodology necessary to ensure adequate testing of combat, command and control, and hull, mechanical, and electrical

TSTP systems. Also provides for review of ships undergoing conversions, modernization, or overhaul to determine the need for structural test firings.

			1984 Unit	s \$	1985 Vnit	s S	1986 Units
Total F	unding	2,283		1,822		1,649	
Efforts	Funded	• •					
1.	Documentation, training, development of test standards and methodology (Workyears)	465	6	402	6	392	5
2.	Combat System Industrial Testing (# of Ships) (# of Ship Classes)	1,470	83 11	1,300	40 6	1,142	· 40 5
3.	Reviews for structural Test Firings	148	5	120	4	115	4
4.	Combat System Readiness Reviews & Tests	200		-		-	

4. In-Service Explosives

This program performs two functions: 1) develops test and engineering procedures for explosives and 2) supports the National Authority for Explosives to the NATO Ammunition Group. This group develops standards and procedures for ammunition and other explosives. Funds support personnel at White Oak and Yorktown who develop required standards and procedures.

	FY	1984	FY	1985	FY	1986
•	\$	Workyea	ars \$	Workye	ars \$	Workyears
Total Funding	\$529	9.3	\$518	9.6	\$448	7.6
Test & Eng	\$177	3.1	\$190	3.5	\$170	2.9
NATO	352	6.2	328	6.1	278	4.7

III. Performance Criteria and Evaluation (cont'd)

E. SHIP SYSTEMS

1. Technical Publications

This program provides the Fleet with timely, usable, adequate and accurate operations and maintenance documentation. Recent Inspector General audit reports have cited deficient technical manuals (TM) as a prime cause of equipment malfunction. The program consists of eight major functional areas:

Technical Manual Update - Makes required changes to deficient critical TMs. Efforts include the planning, development, update, certification, initial printing, stocking, and distribution of the updates. Removal of obsolete manuals and additions of new manuals results in a net 225 manuals per year being added to the list. At the beginning of FY 1985 the backlog was 1,309 manuals. Cost to eliminate backlog was \$82.1 million at the beginning of FY 1985. Backlog reduction in prior years was due to reclassification of selected manuals as valid for SCN funding. Manuals which are known to be candidates for SCN funding have been removed from the O&M,N backlog. Additionally, Advance Change Notices (ACNs) are converted into changes. Five hundred new ACNs are added yearly for conversion to changes.

Technical Manual Reprints - Stocking (over 150,000 TMs), reprinting, and redistribution of COG 01 TMs, except those used for GFI and outfitting. Over 4,000 reprint actions are required per year. Backlog in FY 1984 and FY 1985 was eliminated by reclassification of selected manuals as valid for SCN funding.

Technical Manual Quality Assurance - Funds production of Technical Manual Contract Requirements (TMCR) and participation in TM reviews, validations, verifications, QA audits and post distribution audits to assure that organizations which produce TMs adhere to NAVSEA quality requirements, thereby reducing the number of new deficient TMs entering the NAVSEA inventory.

Technical Manual Management Information System (TMMIS) - Funds two efforts:
(1) A data base which a) allows the management and control of all facets of the life cycle management of NAVSEA TMs; b) provides a track of requirements for update of TMs to new equipment configurations; and c) records TM requirements for each ship; (2) The review and resolution of approximately 2,000 yearly Technical Manual Deficiency Evaluation Reports (TMDER) received from TM users. This process results in correction of existing errors in TMs.

Technical/Engineering Drawing Assistance for NAVSEA Publications and Engineering Drawing (ED) Program - Provides for the development and preparation of documentation for all areas of TM and ED management. Also, provides support for the Integrated Logistic Overhaul (ILO) on-site technical manual validation element of the Supply Overhaul Assistance Program (SOAP); and the Technical Manual Identification Numbering System (TMINS), Technical Manual Specification and Standards (TMSS) program, Technical Manual Quality Control (TMQC) program, TM contract requirements for Technical Repair Standards (TRSs) and software modifications to computer data base programs.

Technical Manual Inventory Management (TMIM) - Prepares distribution lists of TM requirements by ship, reviews requests for printing of new TMs; provides existing TMs; stores TM master copies; and stores, distributes and reprints NAVORD Pubs, assigns and manages TMIM requests.

III. Performance Criteria and Evaluation (cont'd)

Technical Publications (cont'd)

TM Invent. Mgmt. (WY)

- Reprint Ord Pubs

- Printing & Dist.

Management & Control of

NAVSEA Eng. Drawing(WY)

Maint. NSTM/IB/

EIMB/TMS (WY)

Maintenance Naval Ships Technical Manual (NSTM)/Electronic Information Bulletin (EIB)/Electronic Installation Maintenance Book (EIM)/Technical Manual Standards (TMS) - Provides for management, maintenance, updating, printing, distribution and inventory control of 100 NSTM chapters, 13 volumes of the EIMB, numerous EIB (a periodical of electronic equipment) articles and TMS.

Management and Control of NAVSEA EDs - Provides for the management and control of 3 NAVSEA Drawing Repositories, an effort which includes the following: storing, updating and distributing of EDs and indexes; maintaining microfilm indexes (microfiche, microfilm, etc); reviewing and submitting proposed revisions to MIL-SPECS, standards and microfilm techniques related to drawings; and processing all requests for drawings. Current inventory is approximately 28 million drawings. 35 million copies of drawings are provided annually in response to user requests.

response to user requests.			
	FY 1984 \$ QTY	FY 1985 \$ QTY	FY 1986 \$ QTY
Total Funding	19,773	19,722	18,269
Key elements of the program are updat	es, reprints	and quality assur	rance:
TM Update	6,304	5,070	1,518
(# of Updates/Backlog)	97/1.	721 78/1,309	23/1,456
TM Update - ACN Conversion	0	1,730	
(# of ACN Conversion/Backlog)			1.3K/1.3K
TM Reprint	2,400	1,298	
(# of Reprints/Backlog)	3,840/		4,000/0
TM quality assurance	1,945	2,100	2,163 .
(# of TM WYs)	•	5 42	42
Other elements are:			
TM MIS	1,050	1,500	1,545
- TMDER (WY)	2	27 30	30
- (# of TMDERS Recd/backlog)	581/1,	417 2K/2,855	2K/2,855
ADP Support	820	800	855
Tech. Eng. Assist. for NAVSEA Pubs. & Eng.			
Drawings (WYs)	2,327 4	7 2,484 35	2,435 35

Note that WYs for various efforts may vary in cost.

1,287

1,160

1,250

700

530

32

29

43

1,200

1,000

1,310

700

530

20

25

1,360

1,200

1,100

530

700

38

23

22

III. Performance Criteria and Evaluation (cont'd)

2. Inspection/Testing

Provides support to improve hull, mechanical, and electrical (HM&E) material readiness through a comprehensive testing program. Program goals include increasing the number of available sources for parts/equipments through an increased number of Qualified Products List (QPL) tests to create greater competition and cheaper prices, early identification of design problems through tests on failed material, verifying that material in stock has not degraded through appropriate tests, and tests on special interest items such as diesel engines and instrumentation.

· · ·	FY 1984	FY 198	5 FY 1986	
Total Funding		\$2,171	\$2,052	
Output (Number of Tests)		1,796		

Note that test costs may vary depending on complexity of test subject.

3. Ship Design Technical Requirements Documents

Program involves six major efforts:

General Specifications - Keep general specifications for ships current, Units are the number of sections of the General Specification Reviewed/Updated.

Standard & Type Drawings (S/T DWGs) - Prepare, maintain and update S/T DWGs needed for acquisition of equipment, systems and components used on ships. Units are the number of S/T DWGs prepared or updated.

Design Data Sheets (DDS) - Prepare and update DDS that cover standard design processes that are used by engineers and to control contractors' ship design effort. Units are the number of DDS's prepared or updated.

Specification Control Systems - Maintenance of computer data base for the 9,000 standard acquisition documents controlled by NAVSEA and the 5,000 prepared outside NAVSEA which require NAVSEA review. Data base contains revision of priorities for documents, cost of updating, and progress of documents being updated. Units are the numbers of major changes to the data base.

Technical Data Program - Upgrade, promulgate, consolidate, maintain Data Item Descriptions (DID's) for data required by NAVSEA specifications. Also, eliminate DID's no longer required. Units are the number of DID's upgraded or eliminated.

III. Performance Criteria and Evaluation (cont'd)

13-Digit Documents Conversion - This effort is to convert technical requirements documents (welding, material identification, etc.) that are in the uncontrolled series, and non-standard format to a standard series. Units are the number of document conversions initiated each year. There are currently 62 documents still to be converted. The backlog is being reduced at a rate of 8 per year. The effort should be completed in FY 92.

	s FY 1	984 Units		1985 Units	s FY	1986 Units
TOTAL	1,835		1,952		,868	
Gen. Specs	100	15	100	5	100	 5
Standard & Type Drawings	785	144	1,029	158	852	127
Design Data Sheets	50	7	50	3	100	3
Spec Control System	350	60	350	60	420	65
Tech Data Program	430	374	303	270	276	250
13-Digit Document						
Conversion	120	8	120	8	120	8

4. Steam Propulsion Plant Improvment Program
This program provides management and overall coordination required to eliminate deficiencies in training, personnel, engineering design, material, and logistic support of steam propulsion plants for surface ships. Functional areas that comprise this effort are: (A) Engineering Operational Sequencing System (EOSS) which provides procedures for operating propulsion plants in routine steaming and specific casualty modes. (B) EOSS Maintenance which is the operation of the EOSS library and a feedback/update system to maintain EOSS installations. (C) Training Support is the depot level repair of boiler hot plants, technical update of school curricula, and control system training of ship forces afloat. (D) Documentation Support which improves supply support, updates and enhances technical manuals and documentation for maintenance and training. (E) Technical Support which develops engineering improvements in steam propulsion systems, components, and procedures to enhance operability, reliability, safety, and maintenance resulting in a longer useful shipboard life.

	FY 1984	FY 1985	FY 1986	•
,	\$	\$	\$	
Total Funding	7,106	7,575	5,303	
1. EOSS Development	4,062	4,339	1,483	
2. EOSS Maintenance	1,110	1,547	1,880	
3. Training Support	462	400	680	
4. Documentation Support	429	420	360	
5. Technical Support	1,043	869	900	

III. Performance Criteria and Evaluation (cont'd)

5. Underway Replenishment (UNREP)

Provides for the improvement of reliability and maintainability of UNREP systems and equipment through standardization and simplification of reprovisioning actions, and training and technical documentation revisions. Develops safety and performance improvements for elevators, cranes, hoists, similar logistic/handling operations. Corrects Fleet's and Inspection and Survey identified deficiencies by improving integrated logistic support and data production.

Total Funding	FY 198 \$ Q 4,758	<u>4</u> TY	FY 198 \$ Q 11,866	<u>5</u> TY	FY 1986 \$ QTY 4,367
Aircraft Elevator	127		466		761
Reduction of CASREPTS per year	- 57	6	199	6	280 9
Reduction in Parts Delay (days)	7	4	10	7	100 30
Reduction in Maint. Time (days)	11	14	90	20	86 12
Reduction in Repair Time (days)	52	10	167	10	295 15
Current Ao = 0.875					
Goal Ao = 0.950					
Cargo/Weapons Elevator	3,906		<u>8,850</u>		<u>1,000</u>
Reduction in Parts Delay (days)	72	1	1,000	5	50 -2
Reduction in Maint. Time (days)	203	4	500	10	0
Reduction in Repair Time (days)	253	5	3,000	12	50 -2
Reduction in INSURV Inspection	1,061		2,000		200
Reduction in MDCS Documents	434		500		0
Reduction of CASREPT's per year	1,883	16	1,850	15	700 1
Program Initiation Ao (CV/CVN = .3	133)				
Current Combined Ao = .610					
Goal Ao $(CV/CVN) = .800$					•
Goal Ao (Surface Ships) = $.950$					
Standard Replenishment Along					
Side Method	<u>725</u>		$\frac{1,450}{1,450}$		$\frac{1,100}{1,100}$ 11
Reduction in CASREPT per year	725	2	1,450	14	1,100 11
Increased Sys. Availability (Ao)					
Program Initiation Ao = 0.582 ;					
Current Ao = 0.852;					
Goal Ao = 0.892					
Vertical Conveyor	_			_	
Reduce Personnel Injuries	0		<u>500</u>	-2	<u>606</u> -3
AO/AR Crane Support	_				
Crane Certification/# of tests	0		<u>600</u>	55	<u>900</u> 75

III. Performance Criteria and Evaluation (cont'd)

6. Habitability

Provides physical working conditions and personnel support facilities which support ship/fleet readiness and prevent excess expenditures in accomplishing fleet improvements. This effort increases personnel retention rates, ensures that expenditures result in functional vice cosmetic improvements, and ensures that materials/equipment/ furniture installations meet regulated standards and have adequate in-service engineering support.

	FY 198		FY 198	_	FY 196	8 <u>6</u> its	
Total Funding	\$315		\$391	:#2222	\$382		
Updates of Manuals/Catalogs 1/ Ships receiving assistance (Cumulative)	110	2 -	215	6 100	-	-	
Materials Safety: Materials Tested $\frac{2}{2}$	55	24	23	9	-	-	
Products Tested 3/					200	15	
Fleet Support Heat/Vent/Air Condition (HVAC) Surveys/Improvement Plans Ship Equipment Assists 4/	50 -	8 -	103 50	24 26	95 87	22 40	
Maint. Equip Items Tested 5/	100	15	-	-	-	_	

^{1/} Includes In-Service Engineering Support

^{2/} For example, fabrics for berth curtains.

^{3/} Mainly furniture and office equipment.

^{4/} Testing and procurement/logistics support of laundry, dry cleaning, and food service equipment.

^{5/} Shipboard housekeeping and preservation equipment.

III. Performance Criteria and Evaluation (cont'd)

7. Ships Trials & Tests

Funds inclining experiments and engineering solutions to ship hardening problems.

Total Funding

FY 1984	FY 1985	FY 1986
\$7,890	\$2,668	\$4,933

a. Ship Hardening Program

Provides management guidance and technical support to apply lessons learned from ship shock tests by developing engineering fixes for proven highest priority shock hardening deficiencies for existing ships and equipment and modifying Specifications and Standards for improved future designs. Examples of actions taken include: (1) MK 45 Light Weight Gun SHIPALTs and ORDALTs have been prepared to shock harden this system on ship classes (CG 47 CGN 38, CGN 36, DD 963, DDG 993, LHA 1), for a total of 47 ships; (2) MK 86 Gun Fire Control System corrective actions on seven ship classes that potentially involve 71 ships. The probability of Battle Group Ships being rendered combat ineffective by shock damage can be significantly decreased when the developments of the Ship Hardening Program are installed. Thus, further delay of corrective action seriously affects Fleet survivability. The funding provides engineering fixes for the top 20 shock-related deficiencies identified in the "U.S, Navy Ship Hardening Plan-Shock," These requirements will increase as more ships (LSD 41, LHD 1, MCM 3, CG 53) are shock tested and shock hardening deficiencies are identified.

		FY 1984	FY 1985	FY 1986
1.	Training Aids and Documentation	\$ 274	\$88	\$400
2.	Electric Power Reliability	399	26	1,158
3.	Interlocks & Protective Circuits	320	150	83
4.	Missile System Hardening	50	0	300
5.	Gun System Hardening	625	700	350
6.	Communications System Hardening	163	253	550
7.	NAVSEA Shock Coordinator Actions	345	260	370
8.	CV 67 Shock Test & Follow-Up	4,597	0	727
	TOTAL	6,773	$\overline{1,477}$	3,938

b. Inclining Experiments

Program provides funds to perform inclining experiments on ships in the active fleet. These experiments determine displacement and center of gravity data necessary to ensure that ships do not exceed architectural limits. Historical data indicate unexpected and unaccounted for increases in displacemnt and rises in the center of gravity in spite of measures designed to control such growth. Exceeding the stability, buoyancy, or strength limits threatens survivability in high seas. Flooding caused by weapon damage, grounding, or collision will have a significant impact on the survivability.

III. Performance Criteria and Evaluation (cont'd)

	FY 1984	FY 1985	FY 1986		
	\$ Units	\$ Units	\$ Units		
Inclining Experiments Weight Control Program	430 5	1,191 14	995 12		

c. Survivability Review Group (SRG)

SRG identifies changes in ship design practices, specifications and standards which will enhance the resistance of ships to damage by enemy weapons and provide directions to survivability-related R&D. The product of this program is a number of ship class reports beginning with FFG class.

		FY 1984	FY 1985	FY 1986	
		\$ Units	\$ Units	\$ Units	
1.	Combat Systems Rev	107 1 par	tia1 -0-	- 0-	
2.	HM&E System Rev.	165	-0-	-0-	
3.	Vulnerability Asses.	95	-0-	-0-	
4.	Documentation	320	-0-	-0-	
	TOTAL	687	0	0	

8. Ship Systems Engineering (SSE)

The program consists of seven discrete functional areas:

Materials Engineering consists primarily of the Shipboard Corrosion Control

Program which reduces shipboard corrosion and related fleet maintenance. Level

I SUBSAFE funding is incorporated into Materials Engineering beginning in FY

84.

Hull provides life cycle engineering support to critical shipboard hull systems including stern gates, synthetic rope, hull structure, and ship control systems. The main goal is the reduction in the number and duration of hull related CASREPTS and improvement in personnel safety/protection.

Auxiliary, by means of early detection and expedient resolution of auxiliary equipment problems, provides increased reliability and maintainability of mission essential systems/equipment with a tangible decrease in Fleet CASREPTS. Program efforts are targeted toward high priority (DART) equipment problems.

III. Performance Criteria and Evaluation (cont'd)

<u>Propulsion</u> provides for engineering and technical support of propulsion related systems. Main effort is the Boiler Overhaul Improvement Program in which planning and quality assurance are improved by better definition and execution of repairs resulting in shorter, less expensive, higher quality overhauls.

Damage Control provides engineering and logistics support of A) chemical, biological and radiological defense; B) damage control; C) hazardous material control; and, D) personnel protective, survival and rescue equipment,

Electrical provides for engineering solutions to electrical problems identified by the Fleet, CNO, and by CASREPTs. Provides fixes to solve problems between electrical power and combat systems identified by the Electrical Power Interface Compatability (EPIC) program. Other equipment whose electrical problems are being solved are the 400 HZ MG Set, Circuit Breakers and Electrical Distribution and IC Sensor Systems. Electrical accomplishes its mission by revising technical manuals, developing repair standards, and providing modification kits.

DD 963 Class Senior Navy Steering Board (SNSB) - Identifies and oversees correction of technical problems arising on DD-963 Class ships. There are 5 main efforts: A. Independent Design Review Major technical areas analyzed per direction of SNSB. B. Waste Heat Boiler problem solutions. C. Bleed Air System deficiency correction and establishment of in-house repair capability. D. High Pressure Air Systems and E. Low Pressure Air Systems - Equipment and logistics improvments. (Low pressure effort is completed in FY 85).

III. Performance Criteria and Evaluation (cont'd)

111. Fellormance criteria and byardation (cont d)								
8. Ship Systems Engineering (con	FY	1984 Units		1985 Units		1986 Jnits		
Total Funding	\$19,027	\$	17,368	\$	16,757			
Materials Eng. Corrosion Control Mandays saved Other	1,508 1,142 366	20,000	1,802 1,802	30,000	1,501 1,501 0	20,000		
Hull Stern Gate Reduction	$\frac{867}{263}$		$\frac{1,711}{600}$		$\frac{1,730}{200}$			
CASREPT Red. Maint. days Red. Synth. Rope Safety Eng. Support Mean Downtime Reduction Repair Time Red. (days)	75 444	-1 -3 -1% -1%		-2 -3 -5% -5%	200 1,130	-1 -3 -7% -7%		
Other	85	•	100	3 /-2	200	• •		
Auxiliary DART Aux Equip Support CASREPT Reduction Mean Aux Equipment Support	7,116 5,720	-3% -3%	5,877 3,346 2,531	-5% -5%	5,032 2,562 2,470	-3% -3%		
Other Aux Equipment Support Propulsion Overhaul Red. Cost Avoidance (\$) Rework Red. Red. OVHL delays Maintenance downtime reduction	3,083 3,083	25,000 25% 20% 0	3,183 3,183	19,000 20% 30% 0	3,422 2,694	16,000 10% 20% 60%		
Damage Control Damage Control Equipment Cost Reduction Personnel Injury Reduction Personnel Protection/Chem Defense Cost Reduction Personnel Injury Reduction	184 40	1%	0 0		$\frac{2,394}{724}$.	10% 4% 10% 4%		
Fire Protection Electrical	0 3,479		0 2,943		129 1,784			
EPIC Electrical Distr. & IC Sensor Sys Other	2,010		1,794 477 672		679 395 710			
DD 963 SNSB Ind. Des Review/completed/initiat Waste Heat Boiler Bleed Air System HP/LP Air System Other	2,790 635 913 450 392 400	1/2	1,852 621 283 300 494 154	2/0	894 113 243 250 288 0			

III. Performance Criteria and Evaluation (cont'd)

F. SUBMARINE SUPPORT

1. Deep Submergence Systems Project (DSSP)

Provides technical and engineering support in the areas of: design engineering, failure analysis, test planning and preparation, and integrated logistics support for deep submergence rescue systems, submarine rescue chambers, manned submersible vehicles, and unmanned towed search and work systems. This program enables the Navy to rescue people from disabled submarines; perform deep submergence oceanographic research; test and improve deep ocean sensor/equipment systems; perform manned and unmanned underwater search, inspection and recovery missions; and provide support for surface and submarine support ships for deep submergence systems/missions.

	FY 1984	FY 1985	FY 1986
Total Funding	\$12,135	\$13,857	\$16,969

a. The Deep Submergence Rescue Vehicles (DSRV) Program provides continuing technical and logistic services to maintain the readiness of the MYSTIC (DSRV-1) and AVALON (DSRV-2) to respond to submarine rescue mission requirements anywhere in the world. The DSRV's are equipped with a sophisticated command, control and display system using one-of-a-kind commercial equipment, most of which was designed in the late sixties. One of the two DSRV's must be in an alert ready status at all times.

4.044 4.476 4.264

b. The DSRV Modernization Program is a phased program consisting of the engineering design, testing, and vehicle integration efforts required to extend the service life of the DSRV's through the year 2000 and beyond. Rapidly increasing non-supportability of DSRV equipment/systems mandates modernization of these vehicles.

-0- 2,578 2,694

c. NR-1 is the only nuclear powered, deep-diving research and oceanographic submarine in service. Her submerged endurance, depth capability, and special ability for search and recovery far exceed the performance capabilities of other manned submersibles; while her nuclear power plant will provide many years of active service before refueling is required. Because NR-1 contains many unique, one-of-a-kind commercial equipments, it depends heavily on NAVSEA for continuing dedicated specialized technical and logistic support as well as routine operational/maintenance needs. NAVSEA has total budgeting responsibility for NR-1, including those items/services normally included in Fleet support.

2,420 - 2,824

Activity Group: Engineering Support Services (cont'd)

III. Performance Criteria and Evaluation (cont'd)

Deep Submergence Systems Project (DSSP) (cont'd)

d. The Deep Submergence Vehicles Program TURTLE (DSV-3) and SEA CLIFF (DSV-4) provides a manned deep depth work and recovery capability and is supported by engineering, technical and logistics services.

2,227

2,505

1,809

e. The Submarine Rescue Ship (ASR-21 Class) Program supports two ships: the USS PIGEON and the USS ORTOLAN. Both are equipped with a complex Weight Handling System for handling the DSRV's and a Deep Diving System (DDS) for conducting open sea saturation diving operations.

1,083

1,280

1,100

f. Unmanned Vehicle Systems funds support the unmanned Surface Towed
Search System (STSS) which provides a broad-area ocean bottom search capability.
Increased funding in FY 1985 implements and maintains engineering/
technical and logistic support services for new commercial type towed
inspection and work vehicles being delivered in FY 1985 and FY 1986.

911

1,091

900

g. Dedicated Manned/Unmanned Vehicle Support provides specialized mission support services by Scripps Institute of Oceanography and Woods Hole Oceanographic Institute for TURTLE (DSV-3), SEA CLIFF (DSV-4), DSV ALVIN and unmanned vehicles/systems assigned to COMSUBPAC.

670

765

246

799

h. <u>Submarine Personnel Rescue Systems</u> modifies existing submarine rescue systems to provide a capability to rescue disabled submarine personnel exposed to pressurized conditions and to provide a submarine and surface ships-of-opportunity capability which augments the ASR-21 Class for support of Deep Submergence Rescue Vehicles.

257

i. Planning Yard and Engineering/Technical Services are provided for USS POINT LOMA (AGDS-2), a designated Navy DSV surface support ship. As modifications and improvements are accomplished, this ship will be capable of supporting manned DSV's, unmanned towed vehicle systems, and as a DSRV ship-of-opportunity for submarine rescue missions. A backlog of SHIPALT planning/engineering tasks is significantly reduced in FY 1985 and 1986.

195

445

465

j. Engineering and technical support is provided for the ELK RIVER (IX-501), which is the only platform for training Navy personnel in saturation diving. Support services provided by these funds are critical to the safe operation and readiness of the Deep Diving System (DDS) and heavy lift/handling systems installed on this vessel.

585

471

319

III. Performance Criteria and Evaluation (cont'd)

k. The Deep Sea Program is a new initiative beginning in FY 1986. These funds provide mission support as directed by the CNO to increase the operational tempo of deep ocean search, location, and recovery of assets. Various activities will use these funds in support of this new program effort to fund ship charters, special deep submergence systems/equipment charters, data reduction, systems transportation and increased maintenance and logistic support. Also included in this effort are funds to support professional and technical services at naval activities to establish and maintain a repository of certain recovered objects of significant military/national interest; data related to objects lost or disposed of at sea; and oceanographic, charted, and other vital data.

1,538

2. Submarine Noise Reduction

The Submarine Noise Reduction Program has two objectives: (1) sponsor/fund an acoustical trials program, and (2) sponsor/fund state-of-the-art engineering investigations and technical support tasks.

Total Funding Submarine	FY 84	FY 85	FY 86
Noise Reduction Program	\$10,055	\$14,747	\$10,957
Acoustical Trials	\$ 7,886	\$11,157	\$ 9,180
Engineering Investigations and Study Task	\$ 2,169	\$ 3,590	\$ 1,777

III. Performance Criteria and Evaluation (cont'd)

G. QUALITY RELIABILITY ASSURANCE

Establishes policies, performance criteria, and provides assistance in the QA discipline to implement OSD, OPNAV, NAVMAT, and NAVSEA guidance to assure product quality and reliability among ships and weapon systems during design, development, acquisition, operation, and maintenance.

	FY 1984	FY 1985	FY 1986
Total Funding (\$000)	\$2,609	\$1,498	\$2,137
Efforts Funded:			
Shipyard Quality Assurance 1. Number of persons trained for QA	\$246	\$239	\$545
and Ship OH Assessment 2. Number of persons trained for	344	334	750
NDT certification	14	13	30
Supship Quality Assurance 1. Number of people trained for	\$129	\$ 81	\$206
QA and Ship OH Process Assess	360	280	560
2. Number of training courses dev to certify QA personnel 3. Number of QA certification programs administered	9	6	15
	7	6	16
Level I/SUBSAFE	\$53	\$56	\$ 75
1. Number of on-site reviews of contractor plants	7	8	10
Fleet Quality Assurance Asst 1. Number of SRF's accredited for QA	-	\$40	\$60
2. Number of SRF's trained for QA	-	1 1	2 2
Management and Training	\$642	\$332	\$269
1. Number of QA training exercises give		11	8
Design and Production 1. Number of design analyses conducted	\$765 135	\$657 90	\$537 100
In-Service	\$449	\$93	\$445
1. Number of ship models produced 2. Number of eqp pieces analyzed using	4	1	4
engineering data base	40	40	70
NAVMAT Initiatives 1. Number of initiatives achieved	\$325 4	-	-

III. Performance Criteria and Evaluation (cont'd)

H. NUCLEAR PROPULSION TECHNICAL LOGISTICS

This program contains two main efforts:

a. Shipyard Reactor Plant Component Maintenance

Six naval shipyards (Charleston, Mare Island, Norfolk, Pearl Harbor, Portsmouth, and Puget Sound) provide the following types of support: (1) technical receipt inspection, refurbishment, and maintenance of Navy stock spare repairable components; (2) special handling and storage of irradiated components and equipment removed from ships; (3) inspection, modification, refurbishment and control of refueling equipment, special maintenance and support equipment and steam generator cleaning and repair equipment; and, (4) special evaluations of installed reactor plant components and systems as authorized by NAVSEA.

b. Reactor Plant Component and System Engineering

NAVSEA prime contractors (Westinghouse and General Electric), who operate the Department of Energy's Naval Nuclear Propulsion Program laboratories, provide engineering support directly related to the repair or maintenance of reactor plant components installed in nuclear-powered ships. Specifically, these contractors: (1) provide technical liaison with shipyards refueling, over-hauling and testing reactor plants in commissioned nuclear-powered ships; (2) conduct evaluations of operating reactor plant cores, components and material; (3) conduct on-going safety analyses of naval reactor plant systems and material performance; (4) maintain technical manuals; (5) provide engineering support to shipyards repairing reactor plant components turned-in from operating ships; (6) design and develop field change modifications for reactor plant components and equipment as authorized by NAVSEA; (7) contract with vendors for refurbishment of reactor plant components; and (8) provide technical direction to the Navy Ship Parts Control Center regarding parts provisioning, procurement, quality assurance and on-board supply support.

	FY 1984	FY 1985	FY 1986
Total Funding	\$47,490	\$75,047	\$81,749
Shipyard Support Other Support	\$24,965 22,525	\$28,160 46,887	\$27,831 53,918
IV. Personnel Summary (End Strength)			
	FY 1984	FY 1985	FY 1986
A. Military	24	. 46	99
Officer	1	4	4
. Enlisted	23	42	95

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group: Budget Activity:

Maintenance Support

7-Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed.

The Maintenance Support Activity Group supports functions which are not a part of depot, intermediate or organizational maintenance, but which facilitate and perpetuate any or all of those levels of maintenance. Maintenance support can be divided into: programming and planning support which includes long range workload scheduling and resource utilization, centralized planning for all maintenance, all logistics support efforts (except engineering) for the development of weapon system and weapon support activity maintenance requirements; maintenance technical and engineering support, which includes technical and engineering efforts in the development of maintainability concepts and the maintenance portion of logistics plans dealing with weapons and equipment; and technical and engineering data, which includes the preparation of technical and engineering data for all types of equipment, and provides for the preparation, editorial review and/or revision of equipment publications pertaining to the operation, repair and repair parts support of DOD materiel.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

		FY 1985					
	PY 1984	Budget Reguest	APPRO- PRIATION	CURRENT ESTIMATE	Py 1986 Budget Request	CHANGE	
Coast Guard EMS	548	654	645	584	653	69	
Gun Wipn Sys Maint Spt	1,762	2,241	2,184	1,888	2,159	271	
Point Defense Maint Spt	2,649	1,414	1.407	1,306	1.374	68	
Long Range Msl Sys Maint	9, 495	10,986	10,830	10,432	11,547	1,115	
Med Range Msl Sys Maint	14,582	16,216	16,069	15, 192	17,416	2,224	
Missile Maint Support	10,083	12,847	12,779	6,613	8,899		
NATO Seasparrow	10,578	8,733	8,641	3,836	14,787		
Search Radar	12,396	13,933	13,520	12,950	13,274	324	
Vertical Launch Systems	999	1,218	1,156	923	2,061	1,078	
21F Cog EMS	336	582	546	544	478	-66	
INDE/METCAL	5,194	5,630	. 5,560	5,433	4,331	-1,162	
Aine Maintenance Spt	6,511	10,419	10,056	7,991	9,465	1,474	
Ammunition	3,592	3,426	3,409	3,321	2,789	-532	
inspeciar	2,179	2,292	2,171	2,129	3, 356	1,227	
Pollution Abatement EMS	863	1,686	1,679	1,392	1,100	-292	
Pollution Abatement EMS	233	588	588	586	564	-22	
Salvage BMS	662	944	944	937	584	-353	
Inactive Ship	6,512	7,124	7,103	6,766	7,165	399	
AEGIS Systems	5,779	7,516	6,002	5,679	35,138	29,459	
otal, Maintenance Support	94, 344	108,449	105, 289	93,582	137,080	43,578	

B. Reconciliation of Increases and Decreases (Cont'd)

1.	FY 1985 Current Estimate		\$93,502
2.	Pricing Adjustments		1,872
	A. Civilian Personnel Compensation (Direct) 1) US Direct Hire Pay Adjustment 2) Other Direct Pricing B. Stock Fund 1) Non-Fuel C. Industrial Fund Rates D. Other Pricing Adjustments	(-73) -84 11 (-42) -42 (575) (1,412)	
3.	Program Increases		44,393
	A. Other Program Growth in FY 1986 1) Coast Guard EMS	(44,393) 53	
	2) Gun Weapons Systems MS The increase will fund approximately 5,200 additional engineering and manage- ment support actions for the overhaul and repairs of the gun weapons systems.	222	
	3) Point Defense Maint Spt	36	
	4) Long Range Missile Systems The increase supports 10 TERRIER ships in overhaul in FY 1986 vice 6 in FY 1985.	83 1	
	5) Medium Range Missile Sys Maint One additional ship will require Ship Installation/Test/Qualification Support and fourteen additional ships will require In-Service Engineering Agent/Fleet Support. This effort will, in part, support two new TARTAR weapon systems (MK 92 Fire Control System and MK 13 MOD 4 launcher) for FFG-7 class ships which require regular overhaul support and in-service engineering to maintain availability and prevent CASREPTS.	1,719	
	6) Missile Maint Support New missiles entering the fleet require increased engineering support. In particular, a data base for flight testing must be established. Data analysis for these missiles requires 3 times the effort needed for SM-1 Blocks IV and V. Additionally, missiles destined for new vertical	2,124	

launch canisters and SM-2 missiles with new rocket motors require documentation and other engineering

support.

B. Reconciliation of Increases and Decreases (Cont'd)

Increase supports overhaul of 25 NATO
SEASPARROW equipments. Specific tasks include:
Fleet Support - support from NAVSEACENLANT and
NAVSEACENPAC in areas of supply, documentation,
computer programming, Government Furnished Equipment (GFE), production support (ILS) efforts, and
system engineering. Installation & Checkout/
Shipboard Qualification Test (I&C/SQT) provides
installation preplanning integration, assistance
to FMP installing yards, SQT and related
logistics/technical/engineering support, and
repair of part failures.

477

207

- 8) Search Radar MS
 Increased funding will provide an additional
 6 work years of effort for in-service engineering
 and Anti-Air Warfare Readiness Tasks in support
 of 2D and 3D search radars installed in carriers,
 destroyers, and cruisers. In addition, 3 search
 radar systems on 2 additional auxiliaries will be
 supported.
- 9) Vertical Launch System MS 1,038 Increased support is required as this system enters the fleet in FY 1986. ILS resources must be developed, in-service engineering agents must be trained, and computer programs must be written and tested for VLS's on DD-963 Class ships.
- 10) Mine Maintenance Spt
 Increased maintenance requirements result
 from delivery of new weapons to mine stockpiles
 and in-service engineering duties for the MK-60
 mine and the Quickstrike MK-62, MK-63, MK-64 and
 MK-65 mod 0.
- 11) Inshore Special Warfare MS

 In FY 1986, funds are required for maintenance support of the 2 Dry Deck Shelters recently certified. In addition, technical support for Swimmer Delivery Vehicles increases due to 2 additional SDV's in FY 1986.
- 12) Inactive Ship MS
 The increase provides greater contractor effort in operation of the Inactive Ship Maintenance Facilities.
- 13) AEGIS System Maintenance Support 29,475 Increase supports new units entering the fleets, planning requirements for SRAs, and

B. Reconciliation of Increases and Decreases (cont'd)

initial planning for CG-47 Regular Overhauls (ROH). Efforts include operation of a CG Planning Yard (9,292) which establishes expanded capabilities to support unique engineering, maintenance/modernization material integration, operating cycle integration, and quality control/mobile engineering teams. Other efforts include: 441 additional combat system or H&ME in-service engineering technical assists (7,120); follow-on test and evaluation for the Baseline II AEGIS cruiser (2,347); depot administration at Crane, IN (575); AEGIS Computer Center operation and maintenance and installation of Baseline II and III equipments (1,658); AEGIS Combat System Center activation and operations and maintenance (8,483).

4. Program Decreases

-2,687

A. Other Program Decreases in FY 1986

(-2,687)

-59

-612

-398

- 1) <u>2F COG EMS</u>
 The decrease results in 1 less workyear of maintenance support for the 2F COG ASW electronic restoration program.
- 2) TMDE/METCAL -1,243
 Realignment of the TMDE engineering portion of
 the program to Electronic Test and Repair (-897).
 Reduced METCAL engineering results in less development of new Calibration Standards (-346).
- 3) Ammunition
 Reduces the number of workyears by 6 impacting on such areas as ammunition malfunction investigations, technical publication updates, depot maintenance work requirement lists, and automated data lists.
- 4) Pollution Abatement EMS
 The proposed support for procurement of oil
 pollution abatement systems is deferred to FY
 1987 and continuation of the Sewage Systems
 Certification Inspection Program will
 have one year backlog which will affect
 the following ships: CG-16, CG-34, CV-62,
 CV-67, CV-41, CV-60, CV-69, FF-1095,
 FF-1054, FF-1068, FF-1079, DD-46, and
 half the DD-963 Class.

B. Reconciliation of Increases and Decreases (cont'd)

5) Salvage EMS
Decrement due to 17 fewer salvage equipment systems requiring modification, and 8 fewer procedures, instructions, or associated documentation receiving revisions.

-375

5. FY 1986 President's Budget Request

\$137,080

III. Performance Criteria and Evaluation

A. SURFACE WARFARE SYSTEMS

1. Coast Guard EMS

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●なるなるなどが、

Provides maintenance engineering support of Navy-owned weapons and ASW systems installed in U.S. Coast Guard ships.

Funding supports the following ships:

		FY 1984 Ships	FY 1985 Ships	FY 1986 Ships
1)	Guns and Fire Control Systems WMEC WHEC	4	2 5	2
2)	Sonars WHEC	6	6	6

Guns and fire control systems and sonar equipment quantities vary by hull.

WHEC = High Endurance Cutter (378 ft.)
WMEC = Medium Endurance Cutter (270 ft.)

	FY 1984					
	\$ t	mits	\$	Units	\$	Unita
Total Funding	540	7.1	584	7.0	653	8.7

Units = number of workyears

2. Gun Weapon System Maintenance Support

Provides engineering and management support for the gun weapon system maintenance and modernization programs, hydraulic fluid replacement, and test gun mount maintenance.

FY 1984					
\$	Units*	\$	Units*	\$	Units*
1.762	33.885	1.888	43.907	2 159	49 068

Total Funding

* The vast majority of units are engineering and management actions. Units also include the number of guns whose hydraulic fluid was cleaned and one workyear for the test gun mount.

III. Performance Criteria and Evaluation (cont'd)

3. Point Defense Maintenance Support

Provides support for the 52 Basic Point Defense Surface "ssile Systems installed on 34 ships of the fleet. Support includes:

Operarional and maintenance efforts by the Naval Ship Weapon Systems Engineering Station (NSWSES), including development of reliability and maintainability ORDALTS engineering assistance for the correction of casualties, and planning support for ship qualification tests.

 FY 1984
 FY 1985
 FY 1986

 \$ WY
 \$ WY
 \$ WY

 Total Funding
 2,049 37.0 1,306 21.3 1,374 20.7

 No. of Systems Supported
 52 39 30

4. Long Range Missile System Maintenance

Provides installation, test, qualification support and in-service engineering for TERRIER weapon systems on 31 AAW ships. These systems include 90 fire control systems, 45 launching systems, and 5 weapon direction systems.

	FY 1984	FY 1985	FY 1986
Total Funding # of Reports, Ship Vists	\$9,495	\$10,432	\$11,547
Documentation/Corrective Actions	12,231	12,320	12,270

Engineering teams monitor the configuration and installation of ORDALTS and planned improvements in the TERRIER Weapon Systems; test simulation and technical operation; and conduct detailed audits of the capability of weapon systems and the operators of those systems. In-service engineering includes ship assistance visits, remedying casualty reports, and writing technical feedback reports, technical document changes, and engineering change proposals.

III. Performance Criteria and Evaluation (cont'd)

5. Medium Range Missile System Maintenance

Maintenance support includes technical support and material services required for operation, maintenance installation support, Ship Installation/Test Qualification, In-Service Engineering Agent, and Fleet Support.

	FY 1984	FY 1985	FY 1986
Total Funding/Systems Supported	\$14,582/465	\$15,192/518	\$17,416/569
dapported			

A. Ship Installation/Test/Qualification Support

FY 1984		FY 19	Y 1985 FY 1		1986	
\$	Units	\$	Units	\$	Units	
2,454	166	2,100	136	2,350	145	

Units include the number of teams and tasks associated with this support.

Support comprises FFG/DDG/CGN combat system ship qualification teams, combat system readiness reviews, provisioning support, regular overhaul support, follow on test and evaluation, ORDALT proofing and installation and checkout test support for the following classes:

Ship Class	FY 84	FY 85	FY 86
FFG-7	7	10	7
DDG-2	5	1	2
DDG-15	3	4	3
CGN-36	1	_	_
CGN-38	1	1	3
FFG-1	3	1	3
TOTALS			18

b. In-Service Engineering Agent/Fleet Support

FY 1984	FY 1985	FY 1986
\$ Units	\$ Units	\$ Units
12,128 2,689	13,092 2,829	15.066 3.235

III. Performance Criteria and Evaluation (cont'd)

Units include the number of casualty reports/tech assist actions, reliability/maintainability/availability support actions, technical feedback reports, and other fleet support tasks for the TARTAR missile program. Ship classes supported are:

Ship Class	FY 1984	FY 1985	FY 1986
DDG-2	13	13	13
DDG-15	10	10	10
FFG-1	6	6	6
CGN-36	2	2	2
CGN-38	4	4	4
DDG-993	4	4	4
FFG-7	34	38	47
PHM-1	4	6	6
CG-47	0	1	2
WMEC	1	4	7
WHEC	0	1	2
TOTAL	78	89	103

6. Missile Maintenance Support

Maintenance support independent of the depot and intermediate level operations consists of telemetry and in-service engineering functions that support missile flight operations, missile logistics and technical support of design changes. This effort includes the maintenance and update of the flight testing data base for the analysis of flight firings.

Number of ships supported are as follows:

	<u>.</u>	FY 1984	F1 1985	FY	986	
Extended Range Missile Combatants (CG, CGN, DDG) Medium Range Missile		31	31	3	31	
Combatants (CG, CGN, DDG, FFG) Mobile Logistics Force		88	93	9	95	
(AOE, AE, AOR, AO)		27	27	2	27	
	s FY	1984 WYR	FY 1	985 WYR	FY S	1986 WYR
Total Funding	10,083	153	6,613	98	8,899	
TERRIER	325	5	67	1	140	2
TARTAR	195	3	67	ī	140	_
STD MSL-1	5,794	87	4,450	65	3,163	41
STD MSL-2	1,320	20	412	6	3,021	43
Special Weapons	195	3	135	2	270	5
Industrial Engineering	472	8	307	5	943	16
UHF Telemetry	1,782	27	1,175	18	1,222	18

III. Performance Criteria and Evaluation (cont'd)

7. NATO Seasparrow Maintenance Support

1. Description

The program provides installation, operation and maintenance support of the Improved Self-Defense Missile System Program (NATO SEASPARROW Surface Missile System (NSSMS) and MK-23 Target Acquisition System (TAS)) installed on CV/CVN's, AOE, AOR, DD-963 and LHD class ships.

Specific tasks include:

Quick reaction technical and engineering support to sustain a high level of system availability. Resolution of casualty reports; conducting configuration management, evaluating system reliability/maintainability/availability to improve system performance, reviewing and updating documentation and computer programs with respect to operational inputs, and performing necessary logistics support efforts essential to maintain systems in operation.

Perform efforts to improve system operational availability pursuant to Detection Action Response Technique (DART)

Conduct installation preplanning, assistance in actual installation and checkout of systems and ORDALTs, maintain installation documentation, coordinate installation spares and repairs, and perform Ship Qualification Trials (SQT).

2. Input/Outputs

Total Funding		1984 ,578		1985 ,836		1986 ,787
Operational Systems Supported	FY 1984		FY 1985		FY 1986	
	Sys/Ships		Sys/Ships		Sys/Ships	
NSSMS	65	50	67	51	67	51 ·
NSSMS (7M ORDALTS)	6	4	11	8	24	19
TAS	19	19	25	25	30	30

8. Search Radar Maintenance Support

Provides maintenance support for all search radars installed in and used by the fleet. More specifically, this program provides technical engineering services required at shore stations, shipyards, and aboard ships in the operation and maintenance of nearly 1,000 search radars currently installed in the fleet, both in surface missile system (SMS) and non-SMS ships. These services provide in-service engineering and ship assistance teams for Ship Qualification Trials (SQT), ship certification efforts, pre-deployment/pre-overhaul inspections, and emergent problems as well as equipment repair and modifications. Included in this program is the Anti-Air Warfare Readiness Program, which provides rapid response to SMS ships for 2D/3D air search

III. Performance Criteria and Evaluation (cont'd)

radars, displays, ancillaries, and supporting systems. This effort provides high-value missile ships with urgently needed quick reaction engineering level assistance for training and problem resolution to provide improved equipment and system availability and reliability.

The program supports the following ship types:

	FY 1984 Units/Ships	FY 1985 Units/Ships	FY 1986 Units/Ships
CARRIERS	15/8	15/7	16/8
MAJOR COMBATANTS	280/89	298/116	309/115
AUXILIARIES	30/28	28/23	31/25
TOTALS	325/12 5	341/146	356/14 8

Units = Number of Ship Assistance Team (SAT) visits, programmed AAW Readiness visits, Field Change installations, and other engineering efforts.

	FY 1984	FY 1985	FY 1986
Total Funding	\$12,396	\$12,950	\$13 274

9. Vertical Launch System (VLS) Maintenance Support

Program support is required for all levels of VLS maintenance as this new system enters the fleet in FY 1986. ILS resources must be developed, in-service engineering agents must be recruited and trained, and computer programs must be written and tested for the specific VLS variants installed in DD 963 class ships. Requirements will continue to increase in the outyears as new ship classes (CG 47 and DDG 51) and additional variants enter the fleet.

	FY 1984		FY 1985		FY 1986	
	\$	WYS	\$	WYS		WYS
Total Funding	998	12.2	923	10.2	2,001	21.2
	88226		#22 22			
Efforts Funded						
Internated Lordate Comment	\$257	2 1	6222	2 5	\$466	5.0
Integrated Logistic Support	\$237	3.1	\$223	2.5	\$400	٥.٠
In-Service Engineering Agent	376	4.6	368	4.0	800	8.5
Computer Programming	226	2.8	295	3.3	654	6.9
Reliability, Maintainability,						
Availability	139	1.7	<i>3</i> 7	.4	81	.8

III. Performance Criteria and Evaluation (cont'd)

B. ELECTRONICS SYSTEMS

1. 2F COG Electronics EMS

Provides programming and planning support (workload scheduling and resource utilization and maintenance, technical and engineering support), for repairable 2F Cog Undersea Warfare Equipment such as sonar systems, depth sounders, acoustic countermeasures, and undersea communication systems installed or to be installed in attack submarines, ballistic missile submarines, major surface combatants and support ships.

Program requirements are based on quantities of installed equipment, the age of equipment, the cycle time required to repair items, the position of the installed equipment on the ship, issue rates of equipment to the fleet and emergent fleet problems.

Transducers, hydrophones, and scanning switches are major components of a sonar system which receive support.

- a. Transducers receive and send signals and are used on active systems.
- b. Hydrophones, used on passive systems, only receive signals.
- c. Scanning switches are electro-mechanical switches made primarily of silver, which is necessary for a sonar system to process audio and visual signals.
- d. "Sonar equipment" designates various other components of sonar systems.

	FY 1984		FY 1985		FY 1986	
Makal Runding	\$ 336	₩Ÿ 3.9	\$ 544	WY	\$ 478	₩Ÿ 5.2
Total Funding	330	3.7)44 ======	6.2	4/0), <u>L</u>
Transducers and Hydrophones	212	2.5	391	4.4	338	3.8
Scanning Switches	38	.4	82	1.0	70	.8
Sonar Equipment	86	1.0	71	.8	70	.6

III. Performance Criteria and Evaluation (cont'd)

2. TMDE/METCAL Support

The TMDE/METCAL program identifies electronic test equipment requirements for monitoring and maintaining the performance level of systems/equipments and calibration support required for maintaining mechanical and ordnance TMDE. TMDE is any device which measures, calibrates, gages, tests, inspects, monitors, diagnoses or otherwise examines the operating or physical characteristics of a system/equipment or materials/supplies. This maintenance support program supports (1) technical support required for the NAVSEA Metrology Program; (2) determination of calibration requirements based upon system operating requirements; (3) development and distribution of standardized documentation required for the calibration program; (4) determination of electronic test equipment required for reliability operating and maintaining systems/equipments; and (5) data systems for analyzing TMDE requirements and for calibration scheduling.

3,998 45 859 10	$\frac{3,692}{1/}$
	859 10 576 6

^{1/} The TMDE Engineering portion of this program transfers to Engineering and Support Services (Electronic Test and Repair) in FY 1986.

III. Performance Criteria and Evaluation (cont'd)

C. UNDERSEA WARFARE SYSTEMS

1. Mine Maintenance Support

Maintenance includes the following efforts:

Maintenance Support — support for depot maintenance and intermediate maintenance of mines and related equipment includes material receipt, document issuance and processing, data and report compilation, and other program and technical items. Units are the number of work directives, procedure documents, Fleet test data reports, and other management documents produced or processed.

Mine Warfare Planning — engineering and fleet support services for the development and maintenance of hardware and systems as well as software. Units include maintenance for 3 mine warfare simulators, 30 projects to update the simulator data base, and five field activities and support contracts.

The Craft of Opportunity/Route Survey Programs — The COOP program and Route Survey program are recent initiatives to study the port breakout problem. Units are the number of major tests and tasks performed.

	FY 1984		FY 1985		FY 1986	
	\$	Units	\$	Units	\$ U	nits
Total Funding	6,511		7,991		9,465	
Processor & Discorder	222222			*******		
Programming & Planning	045	2 527	615	2,128	757	2 610
Support Maintenance Technical	043	2,321	013	2,120	131	2,619
Engineering Support	1,059	4,173	205	4,086	1 221	5,621
Technical & Engineering	1,039	4,1/3	093	4,000	1,231	3,021
Data	2 002	2 261	1 79%	2,103	2,556	3 007
Mine Warfare Planning	610	-	815	38	852	•
Coop/Route Survey	1,995	26				38
ooop, noute bulvey	1,,,,		-,000	50	2,007	50
Mine Hunting Systems						
Support Services (WY)*			295	3	418	5
••						
Counter Measure Systems						
Support Services (WY)*			559	5	593	7
Mine Neutralization						
Systems Support Services (WY)*			212	2	219	2

^{*} Transferred from Surface Mine Countermeasures in FY 85 and FY 86.

III. Performance Criteria and Evaluation (cont'd)

D. AMMUNITION MAINTENANCE SUPPORT

Maintenance Support Services - Provides engineering support both to investigate ammunition malfunctions and to prepare and update depot maintenance work requirements and automated data lists used by depot maintenance activities.

Joint Conventional Ammunition Program (JCAP) - Coordinates and takes action on all conventional ammunition logistic activities. Funding is provided for travel support of the Navy members (other than NAVSEA) designated as JCAP-CG and Single Manager points of contact.

	\$ FY 198		FY 19		FY 19	086 Units
Total Funding	3,592		3,321		2,789	
Maintenance Support Services/ WY JCAP/Number of Trips	3,528 64	35 71		30 71	2,725 64	24 71

III. Performance Criteria and Evaluation (cont'd)

E. OCEAN ENGINEERING SYSTEMS

1. Inshore Special Warfare Equipment Maintenance Support

Provides technical and engineering support for Swimmer delivery vehicles (SDV), dry deck shelters, production shelters, acoustic equipment, submersible training platforms and other special warfare equipment that support Sea-Air-Land (SEAL) teams in combat swimmer/SDV operations.

Total Funding (\$000)	FY \$ 2,179	1984 Uni	FY 1 ts \$ 2,129	985 Unit	FY 3,356	Units
1. Engineering/Technical	\$1,731		\$1,684		\$1,894	
support for SDVs (Number of vehicles)	, _,	20	1-7	23	7-3	25
2. Dry Deck Shelters Supported (No. of DDS)					995	2
(Operational Cycles)				2		2 6
(Number of Submarines Configured)				1		3
3. Configuration Mgmt & Technical support for						
SEAL Delivery Vehicles	273					
SEA Life Support Sys -MK-15's	94	20	32		65	
(No. of Units) -DRAEGAR LAR V's	65	320	76	140	98	220
(No. of Units)		200		315		320
 Rubber Raiding Craft Maintenance (# of craft) 	16	43	38	61	65	70
5. Thermal Protection		7.7	299	01	239	70
Units Procured	-			136		105

III. Performance Criteria and Evaluation (cont'd)

2. Pollution Abatement EMS

Reduces pollution such as oil wastes, sewage, solid waste, hazardous waste, and air pollution by providing for engineering technical and logistic support, and guidance to the fleet on shipboard treatment/management systems. Supports the installation, implementation and upgrade of those systems which process on-board wastes. The benefits of pollution abatement efforts are access to foreign ports, freedom from litigation, and a data base to document environmental protection results. A description of some specific efforts follows:

<u>Sewage</u> - This program has developed technical documentation applicable to 372 surface ships plus additional boats and craft. Most surface ships now have active Marine Sanitation Devices (MSDs) that have been certified as being adequate.

Hazardous Waste - Development of the shipboard operational procedures for handling and storing hazardous waste and its disposal at sea and shore activities.

<u>Solid Waste</u> - Provides ship checks and shipalt proposals necessary for the procurement and installation of food waste pulpers and classified document destructors on all surface ships.

Open Sea Pollution Abatement - Provides funds for technical and engineering services required to develop planning, life-cycle engineering management, and integrated logistics support for open sea pollution abatement systems used to combat Navy spills at sea.

A description of output and the efforts involved follows:

No. of System Cetification - units are the number of final reports on the certification inspections following the installation of CHT systems and oil and water separators on Navy ships. (Sewage and Oil Pollution)

No. of Ship Checks - units are the number of inspection visits to check-out pollution abatement systems following installations for both new construction and backfit on existing ships. (Sewage, Oil Pollution, and Solid Waste)

No. of Training Sessions - units are the number of sessions to train shipboard hazardous waste coordinators. (Hazardous Waste)

No. of Shipalt Proposals and Machalts - units are the number of installations of these equipments on existing ships and modifications to equipments that are already installed. (Sewage, Oil Pollution, and Solid Waste)

	FY 198		
	•	•	lts \$ Units
Total Funding (\$000)	\$1,0 96	\$1,978	\$1,664

Direct Tasks:			
Oil Pollution	240	350	277
Sewage	242	480	379
Hazardous Waste	221	300	237
Solid Waste	160	262	207
Open Sea Pollution Abatement	233	586	564
No. of System Certification	27	38	3 17
No. of Ship Checks	38	61	l 50
No. of Training Sessions	40	•	
No. of Ship/Mach/Alts Proposals	46	57	7 43

III. Performance Criteria and Evaluation (cont'd)

3. Salvage Maintenance Support

Program provides maintenance support for all Navy salvage equipment and operations. This includes:

- A) Developing designs, drawings, and specifications required to modify and improve Navy salvage equipment.
- B) Modifying and revising maintenance procedures, instructions, and associated documentation for all Navy

Total Funding (\$000)		984 Units	\$ \$ \$937	1985 Units	\$ <u>FY</u> \$584	1986 Units
1) No. of Salvage equip. systems requiring design modification.	244	10	595	35	300	18
2) No. of procedures, instructions, associated documentation revised.	418	70	342	60	284	52

F. INACTIVE SHIP MAINTENANCE SUPPORT

Supports the operation of government-owned contractor-operated Inactive Ship Maintenance Activities at Bremerton, WA., Portsmouth VA., Pearl Harbor HI., and Philadelphia, PA,, in accordance with the Commercial Activity (CA) program under OMB circular A-76. This program provides for planning and executing all-maintenance and pre-activation requirements for the fleet, provides funding required for the disposal of ships, and reimburses Maritime Administration (MARAD) for costs associated with disposal of vessels in MARAD custody.

The industrial effort required is performed by either private or naval shipyards with the Inactive Ship Activity performing custodial and non-industrial technical guidance in connection with maintenance, drydocking, and disposal functions.

Total Funding (\$000) Number of Ships/Craft	FY 1984 \$ Units 6,512 49/93	FY 1985 \$ Units 6,766 49/93	FY 1986 \$ Units 7,165 49/93
1. Civilian Personnel (WY)	1,029/ 36	1,050/ 36	999/ 36
2. Contract, Cost, GOCO(WY)	4,454/285	4,692/285	5,007/285
3. Other Maintenance and Support (49 ships/93 craft)	966	930	1,059
4. Inactive Fleet Maintenance	63	94	100

III. Performance Criteria and Evaluation (cont'd)

G. AEGIS SYSTEM MAINTENANCE SUPPORT

Provides AEGIS system maintenance support in the following areas:

- CG 47 Planning Yard. Current CNO Top Level Requirements specify a sustained operational availability approaching 90% for the CG 47 Class. In order to achieve this availability goal, innovative maintenance planning and better execution are required to ensure that all maintenance/modernization requirements are accomplished during time-constrained availabilities. A primary goal of the CG 47 planning yard is to reduce the Regular Overhaul (ROH) period for CG 47 Class ships from seven months to five months. The net effect of such a reduction would be an additional twenty-two years of ship availability over the life of the entire class. Due to the higher than normal operational availability required of this class, the CG 47 Planning Yard responsibilities go well beyond those of a traditional Fleet Modernization Program (FMP) planning yard in the areas of configuration engineering, maintenance/modernization, material integration, operating cycle integration and quality control. The Design Services Allocation in support of pure FMP requirements is recognized and will be required in addition to the CG 47 maintenance and modernization planning agent, the planning yard consolidates all CG 47 maintenance and modernization planning responsibilities in one coordinated organization.
- Combat System In-Service Engineering. Because the AEGIS combat system is unique, organic fleet maintenance support capabilities and experience in maintaining a totally integrated combat system such as AEGIS do not exist. When coupled with the CG 47 Engineered Operating Cycle (EOC), increased In-Service Engineering (ISE) support will be necessary to maintain the AEGIS Combat System at required operational levels. CG 47 Class cruisers will undergo major system improvements in block upgrades. CG 47 51 are designated as Baseline I cruisers and are equipped essentially with the prototype production AEGIS Combat system. FY 86 marks the fleet introduction of the first Baseline II cruiser, CG 52, which incorporates significant combat system improvements, including a major ASW upgrade. This will further drive increased ISE support requirements. As time goes on, greater numbers of new and unique CG 47 combat system elements will be introduced.
- Hull, Mechanical and Electrical (HM&E) In-Service Engineering. Although CG 47 and DD 963 have many common HM&E equipments, In-Service Engineering requirements for the two classes are not the same. Unique CG 47 EOC requirements call for significant ISE support not required by the DD 963 Class. For example, NAVSSES Philadelphia, PA is tasked to determine equipment maintenance requirements to be conducted during short availabilities. CG 47 programmed operational availability approaches 90% compared to a DD 963 availability of 60%.
- Follow-on Test and Evaluation. Follow-on Test and Evaluation (FOT&E) is required on a cyclical basis with the introduction of each new Baseline to verify and validate the capabilities and performance of newly installed upgraded systems. CG 52, the first Baseline II cruiser, will undergo FOT&E in FY 1986 and 1987. Since no new Baselines were introduced in FY 85, no FOT&E requirements are identified for that year. FY 84 FOT&E support reflects final testing and evaluation of CG 47.

III. Performance Criteria and Evaluation (cont'd)

- Depot Administration. Provides for the administration, warehousing, receiving, packaging and shipping of failed AEGIS system tubes which are repaired at the designated AEGIS repair depot in NSWC Crane, Indiana and restored to a Ready For Issue status.
- AEGIS Computer Center (ACC) Administration and Maintenance. Provides required operation and maintenance support to the AEGIS Computer Center, Dahlgren, VA. This includes site upkeep, security, equipment repairs, utilities and general administration. This center directly supports in-service engineering, and computer program maintenance functions of the at-sea AEGIS Combat Systems.

AEGIS Combat Systems Center During FY 1984, \$42.9M in OPN funds were used to procure AEGIS Combat Systems Center (ACSC) equipment for installation during FY 1986. The establishment of the ACSC is in accordance with congressional direction to transition AEGIS training and Lifetime Support Engineering functions from RCA, Moorestown to NSWC Dahlgren and Wallops Island, VA, respectively. The \$4.1 in ACSC site activation funds are required to install and checkout FY 1984 equipment procurements prior to a scheduled ACSC operational date midway through FY 1986. New Baselines with their associated training and Lifetime Support Engineering requirements will continue to be satisfied initially by RCA Moorestown, and will transition to NSWC Dahlgren and ACSC Wallops Island on a cyclical basis.

	FY 1984 FY 1985 FY 1986
Total Funding	\$5,779 5,679 35,138
	FY 1984 FY 1985 FY 1986 S Units S Units S Units
1. CG 47 Planning Yard	\$ Units \$ Units \$ Units
Functions:	2001 2001 2001
- Configuration Eng	318/- 293/- 3,036/-
 Maint/Mod Mat'l Integration 	259/- 331/- 3,428/-
 Operating Cycle Integration 	246/- 226/- 2,350/-
- Quality Control/Mobile Eng Team	154/- 143/- 1,469/-
Output measure:	
- Intermediate Maintenance	
Availabilities (IMA) Supported - Selected Restricted	-/1· -/1 -/3
Availabilities (SRA) Supported	-/0 -/1 -/2
- Regular Overhauls (ROH) Supported	
 Combat System In-Service Engineering Technical Assist or Ship Vists 	621/40 1,284/79 7,042/415
3. Ship Systems (RM&E) In-Service Engineering/Technical Assists	•
or Ship Visits	721/55 1,188/101 2,542/206

III. Performance Criteria and Evaluation (cont'd)

				34 <u>FY 1985</u> its \$ Unit	FY 1986 S \$ Units
4.	Follow-On Test and Evaluation Ship Days of Test Support		1,454/6	0/0	2,347/9
5.	AEGIS Depot Admin Crane Tubes Repaired	,IN/	1,146/7	1 1,191/185	1,763/300
6.	AEGIS Computer Center (A - Site Operations & Main Computer Program Equiv Supported - Activation	itenance/		3 1,023/438 0/-	
	AEGIS Combat Systems Cer - Site Operations & Main ACSC Lab Hours Supporte (6 months) - Activation	itenance/	•	0/0 0/-	4,498/1,200 3,985/-
IV.	Personnel Summary (End	Strength). FY 1984	FY 1985 FY	1986	
	A. Civilian	54	55	55	
	USDH	54	55	55	

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group:

Contractor Technical and Maintenance Support

Budget Activity:

Claimant:

7 - Central Supply and Maintenance Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed

This activity group provides both contract and in-house engineering and technical services supporting maintenance and repair of all operating naval ships. It meets Fleet and Type Commanders' requests to investigate and solve problems outside of industrial availabilities. Beginning in FY 1986, all funds for Ship Alteration Proposals and Ship Alteration Records have been transferred to the Fleet Modernization Program in BA 2.

II. Financial Summary (Dollars in Thousands).

Sub-Activity Group Breakout.

			FY 1985				
	PY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	Py 1986 Budget Request	CHANGE	
NOTU/CETS	10,309	10,681	10,671	10.157	10,913	756	
DFS Direct Fleet Support	11,242	9,609	9,600	9,486	10,434	954	
Navigation Sys Tech Sup	3, 279	4,295	4,216	4,126	4.038	-88	
Aircraft Carrier Technical Spt	1,525	1,550	1,478	1.470	1,091	-379	
Surface Combat Tech Support	3,531	3,641	3, 396	3,610	3,549	-61	
CSS/ASC/Boats Tech Support	5,338	4,911	4,808	4,764	3,303	-1,461	
Submarine Log & Eng Support	10,376	14,216	13,840	14,941	11,652	-3, 289	
TOTAL, CONTRACT TECH & MAINT SPT	45,600	48,903	48,009	48,548	44,980	-3, <u>5</u> 68	

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate \$48,548 1,413 2. Pricing Adjustments (-265)A. Industrial Fund Rates (1,678)B. Other Pricing Adjustments -6,818 3. Functional Program Transfers (-6,818)A. Transfers Out 1) Intra-Appropriation -6,818SAP/SAR -Transfer of overhaul-related Ship Alteration Proposals (SAP) and Ship Alteration Records (SAR) to the Fleet Modernization Program in BA 1 (P2PU; 152K) and BA 2 (P2PU; 6,666K) from the following programs: Aircraft Carrier Technical Support (-204) Submarine Logistic & Engineering Support (-421) Surface Combatant Technical Support (-3,764)

4. Program Increases

5,247

3,553

A. Other Program Growth in FY 1986 (5,247)

1) MOTU/CETS

Three additional manyears of annual MOTU/CETS
support. (5,247)

CSS/ASC/Boats Technical Support (-2,429)

- 2) <u>Direct Fleet Support</u> 546 Funds an additional 160 functional checks (9.7 manyears of effort).
- 3) Surface Combatant Technical Support
 a) Surface Combatant Tech. Support
 Prior to transfer to BA 2 this line was
 increased to fund additional Ship
 Alteration Records (1,409). Engineering
 Services increases to include shock
 hardening for CGN-38 class ships, and
 technical interface drawings and presure fired boiler inspections for FF's
 (732). Engineering Services also includes
 funds for NAMSO, a NAVSUP activity which
 is reimbursably funded to design and
 operate the Logistic Data System for
 NAVSEA (1,357).
 b) Surface Combat Systems Engineering

b) Surface Combat Systems Engineering Increase provides additional funds for Ship Alteration Records development (55).

B. Reconciliation of Increases and Decreases (cont'd)

829 4) CSS/ASC/Boats Technical Support a) CSS/ASC/Boats Tech Support -Increase is to fund preparation of additional Ship Alteration Records which were subsequently transferred to BA 2 (153); fleet requirements to provide for critical design and on-site technical reviews (151); private sector overhaul management support and other tasks (136). b) Combat Craft Support -Increase is to fund development of the LCU/SLEP program, torpedo tube removal, and survival/reliability analysis (286). c) Combat Craft Ship Systems Engineering -Increase allows the accomplishment of 4 additional Ship Alteration Proposals which were subsequently transferred to BA2 (32), and increased Technical Repair Standards manual preparation (11). d) Combatant Craft Combat Systems Engineering -Increase provides additional funding for review of Ship Alteration Records which were subsequently transferred to BA2 (60).

5. Program Decreases

-3,410

- A. Other Program Decreases in FY 1986 (-3,410)

 1) Navigation Systems Technical Support
 Decreases the number of corrective actions
 taken which in turn reduces the material
 readiness of shipboard (SSN, CV(N), BB,
 CG(N), DD and DDG) navigations systems.
 - 2) Aircraft Carrier Technical Support
 a) CV Technical Support Decrease results in three fewer carrier visits by the Aircraft Carrier Climate Control Investigation Team and a reduction in overhaul management effort in FY 1986 (-93); reduced effort in logistic management and fleet requirements (-112).
 b) CV Ship Systems Engineering (-26)

3) <u>Submarine Logistics & Engineering</u> Support

a) Submarine Technical Support
Reductions reflect decreases in material
systems improvements such as ultrasonic
testing, battery improvement and 400/HZ
motor generation (-510); investigation
and studies such as HY 80 Casting/MK 48

c) CV Combat Systems Engineering (-8)

-239

-3,059

B. Reconciliation of Increases and Decreases (cont'd)

impact (-2,189); reduced logistic and engineering support in maintenance repair efforts and SSN 688 Class Support (-270) b) Submarine Periscope/Antenna (-49)

Reduced technical support for Operational Periscopes.

- c) Submarine Ship Systems Engineering (-34)
 d) Submarine Combat Systems Engineering (-7)
- 4) Surface Combatant Technical Support
 Surface Combatant Ship Systems Engineering (-6)
- 6. FY 1986 President's Budget Request

\$44,980

III. Performance Criteria and Evaluation

A. FLEET TECHNICAL ASSISTANCE

1. CETS in Support of MOTU

Contractor Engineering and Technical Services (CETS) augment the in-house Mobile Technical Units (MOTU) efforts in trouble shooting, repair, maintenance and over-the-shoulder training in support of Fleet weapons, systems and equipments worldwide on immediate alert 24 hours a day 7 days a week. CETS are used when there is lack of Fleet or Direct Fleet Support capability or capacity. CETS requirements, by system or equipment, are determined annually by Fleet Commanders-in-chief, who regularly check each individual service being funded to assure that a need actually exists. If an individual service is found to be underutilized, then the service is reduced or discontinued. CETS is contracted in three ways:

Annual: Contractor personnel are located worldwide on an annual basis, to fill critical billet gaps and shortages of highly trained Navy senior enlisted personnel. Equipments supported by annual contracts include Close-In Weapon Systems (CIWS), Ships Intertial Navigation Systems (SINS), Type 18 periscopes, Navy Tactical Data Systems (NTDS), and MK 86 Gun Fire Control Systems (GFCS).

On-Call: Contractors provide technicians on an on-call basis as required. Equipments supported in this manner have a Mean Time Between Failure (MTBF) rate greater than that necessary to justify annual funding of a full time technician. Equipments supported by on-call contracts include evaporators, air and surface search radars, oxygen generators, Low Pressure and High Pressure air compressors and shipboard telephone systems.

Emergency: Repair contracts are let on an "as occurring" basis to support equipment which was not expected to fail beyond fleet capability to repair. Recent (FY 84 and FY 85) emergency contracts have included LP and HP air dehydrators, MK 14 gyros, doppler sonar and main reduction gears.

	FY 1984	FY 1985	FY 1986
Total Funding	10,309	10,157	10,913
Annua1	8,453	8,329	8,949
On-Call	1,031	1,016	1,091
Emergency	701	662	708
General Support	124	150	165

III. Performance Criteria and Evaluation (cont'd)

2. Direct Fleet Support

Provides in-house Technical Assistance (TA) maintenance support directly to the fleet for all NAVSEA systems (except surface missile systems and radars). Support is provided on a 24 hour a day world-wide basis for shipboard systems/equipment which are out of the SCN funding period. This account also provides the fleet with scheduled systems/equipment Functional Checks (FC's) such as Combat Systems Readiness Trials/Reviews, Explosive Safety Reviews, etc, In conjunction with technical assistance and functional checks, on-the-job training is provided to ships' crews to make them technically self-sufficient. Response to CASREPTS, etc., and the periodic evaluation of correction of shipboard technical problems has a direct and immediate impact upon fleet readiness. This program reduces the possibility of serious equipment casualty and attendant cost, and reduces possibility of personnel injury.

	FY 1984	FY 1985	FY 1986
Total Funding	11,242	9,480	10,434
No. WY's	220	177	187
No. Events: Technical Assistance Functional Checks	6,675 1,045	7,500 216	7,500 376

III. Performance Criteria and Evaluation (cont'd)

B. NAVIGATION SYSTEMS TECHNICAL SUPPORT

This program maintains the material readiness of shipboard (SSN, CV(N), BB, CG(N), DD and DDG) navigation systems. It provides timely corrective actions to achieve the required high reliability and availability of accurate navigational data for vessel navigation; torpedo and missile targeting; aircraft alignment; AEGIS, SM-2(ER) and TOMAHAWK weapon system stabilization and alignment.

		FY 1984		FY 1985		FY 198		
		Units	\$	Units		Units	•	
Tota.	l Funding	********	3,279		,126	4 *******	,038	
Effo	rt Funded							
1.	Ships Pt Cont Cntr							
	Logistics Support							
	(# of Installations)	100	635	100	700	100	665	
2.	Technical Support							
	a. Dual Miniature Inertial	5	50	5	50	5	50	
	b. AN/WSN-2/5 Technical							
	Support							
	(No. of Manuals Maintained)	3	383	3	400	3	415	
	c. Inertial Navigation Sys/Shps							
	Navigator & Aircraft Inertial							
	Alignment Systems Certification							
	(No. of Ships Supported)	38	595	50	818	40	677	
	d. Ships Inertial Navigation							
	System (SINS)							
	(Submarine Installations)	20	85	45	200	30	149	
	e. 608/598 SSBN to SSN							
	Conversion							
	(No. of Ships Supported)	2	405	2	300	2	150	
	f. ESGN							
	(No. of Installations)	10	85	20	150	25	200	
3.	Conventional Navigation							
	(No. of Equipments)	1,180	256	1,958	445	1,700	404	
4.	AN/WSN-2/5 Logistic Support	_						
	(No. of Installations)	90	250	90	250	90	238	
5.	NARF TPS Maintenance							
	(No. of TPS's Supported)	45	100	45	105	45	94	
6.	ESGN Firmware Support							
_	(No. of Installations Supported)	-	_	10	150	12	200	
7.	CVNS Navigation Facility	-	-	-	-	6	300	
8.	Reliability Analysis							
_	(No. of Ships Supported)	147	342	185	460	170	440	
9.	608/598 SSBN to SSN		•					
	Conversion Parts Support	•		•				
	(No. of Ships Supported)	2	93	2	98	1	56	

III. Performance Criteria and Evaluation (cont'd)

C. SURFACE SHIPS SUPPORT

1. Aircraft Carrier Technical Support

Responsible for identifying and effecting improvements in areas such as shipboard firefighting systems, health hazards, habitability, corrosion control and weapon aircraft elevators. Improvements are achieved through component/system redesign, revisions to operating techniques and procedures, control disciplines and improvements in logistics, training and documentation.

Three programs included are: 1) CV Technical Support which provides engineering technical support for investigating and applying equipment/systems to aircraft carriers and new equipment requirements for 8-10 overhauls a year; analyzes maintenance and performance data to discover ship problems, solve ship configuration inadequacies and investigates problems encountered outside of industrial availabilities, generally at the request of the Fleet; note that units below include reports, services and overhaul management such as MPR drawings, antenna system, reviews SARs, technical data collection, ShipAlt reviews, on-site inspections, ship configuration status reports and work package assessments; 2) CV Ship Systems Engineering which funds engineering development of Technical Repair Standards (TRS); and 3) CV Combat Systems Engineering which provides for the scheduling and development of all requisite combat systems upon aircraft carriers that require support and upgrade.

Number of Alicraft Carriers	16 FY 1984 \$ Units	FY 1985 \$ Units	FY 1986 \$ Units
Total Funding	\$1,525	\$1,470	\$1,091
A. CV Tech Support	1,129	1,103	896
B. CV Ship Sys. Eng.	280	236	195
C. CV Combat Sys. Eng.	116	131	0
Efforts Funded:			
A. CV Tech Support			
l. Logistic Mgmt.	435 44	425 40	350 38*
2. Fleet Reqmts.	435 27	425 24	386 21
3. Overhaul Mgmt.	259 32	253 32	160 11
B. CV Ship System Eng. 1. TRS's			
- Revision(Maintenance)	215 150	211 165	27 20
- Development	40 3		
- Certification			119 100
- Review			27 20
- Verification			12 10
- Complete Development			10 8
2. SAP's	25 2	25 2	*

III. Performance Criteria and Evaluation (cont'd)

C. CV Combat Systems Eng.

1.	SAPs Developed	80	8	90	9	*
2.	BACDs Reviewed	36	20	41	21	*
3.	SARs Reviewed	-		-		*

SAP/SAR funds are transferred to FMP BA2 account in FY 86.

Surface Combatant Technical Support

Maintains the readiness of all surface combatant ships by providing technical oversight in the diagnosis, planning and execution of repair work. In addition, management and technical expertise are provided to ensure that documentation, support, spare parts and personnel are available to support the operational fleet.

A. Surf. Cmbt. Tech Spt. B. Surf. Cmbt. Ship Sys. Eng. C. Surf. Cmbt. Sys. Eng. Total Funding	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
	\$2,373	\$2,389	3,153
	658	724	396
	500	497	0
	3,531	3,610	3,549
Number of Surface Combatant Hulls	196	221	226

Surface Combatant Technical Support

	FY 1984	FY 1985	FY 1986
Total Funding	\$2,373	\$2,389	\$3,153

1. Provide Engineering, Integrated Logistics Support (ILS) and Overhaul Management of 17 Classes of Surface Combatants and the Coast Guard 270 WMEC Class, which have steam propulsion plant systems. Additionally supports Gas Turbine Surface Combatant ships, including the DDG 963, DDG 993, PHM and FFG 7 classes. The number of FFG 7's increases from zero in FY 84 to 45 in FY 86.

a.	SAR Preparation	\$1,409	\$1,370	1/
b.	Engineering Services + ILS	\$695	\$854	\$2,979 2/
c.	Overhaul Management	\$269	\$165	\$174

 $[\]frac{1}{2}$ Transferred to BA2-FMP in FY 1986 $\overline{2}$ Includes \$1,357 for NAMSO which pays 37 civilian personnel on a reimbursable basis to design and operate the Logistic Data System (LDS), a key element in the FFG 7 Class life cycle maintenance and support.

III. Performance Criteria and Evaluation (cont'd)

Surface Combatant Technical Support (cont'd)

B. Surface Combatant Ship System Engineering Prepares Technical Repair Standard (TRS) manuals to provide in a single document all procedures, technical specifications, drawings, and acceptance criteria necessary to restore surface combatant hull, maintenance, and

electrical equipment to original performance specifications.

	FY 1	984 1	Y 1985	FY	1986
	\$	Units \$	Units	\$	Units
TRS's					
- Revisions (Maintenance)	381	800 4	404 800	164	323
- Maintenance				22	40
- Complete Revisions				166	360
- Certification				26	50
- Review				9	12
- Verification				9	12
- Complete Development					
Total TRS	381	7	104	396	
SAPS	277	18	320 21	*	*
 -					
Total Surface Ship Sys Eng.	658	7	724	396	

C. Surface Combatant System Engineering
Provided for scheduling and development of Ship Alteration Proposals (SAPs)
required to support and upgrade the combat system of surface combatants. Also
provided review and technical approval of all planning yards development of Ship
Alteration Records (SARs) and Basic Alteration Class Drawings (BACDs) for
major or first time installations. This activity is transferred to the FMP,
BA 2 beginning in FY 1986.

SAPs Developed	\$199	\$289	*
SARs Reviewed	128	134	*
BACDs Reviewed	173	74	*
TOTAL	<u>\$500</u>	\$497	*

3. Combat Support Ships/Amphibious Ships/Craft/Boats Technical Support

This program provides for developing and managing programs for the overhaul, repair, activation, maintenance, and logistic support of combat support ships, amphibious ships, craft, and boats. These constitute about half of all Navy surface ships. Among the ships covered by the funds are Mobile Logistic Support Force vessels which act as the life-support system of deployed fleet combatants and amphibious ships.

* Transferred to FMP BA 2 account in FY 86.

III. Performance Criteria and Evaluation (cont'd)

Combat Support Ships/Amphibious Ships/Craft/Boats Technical Support (cont'd)

The program objective is to assure high material readiness of operating forces. Recent efforts to increase the operational tempo of the fleets and to incorporate sophisticated equipment and self-defense weaponry (such as Close-In Weapon Systems) aboard Amphibious and Combat Support ships have placed additional demands on this program.

Total Funding	FY 1984 FY 1984 FY 1984	1985 FY \$4,764	1986 \$3,303
A. CSS/ASC Boat Tech. Spt.	3,453	2,329	1,712
B. Combat Crft. Spt. C. Combat Crft. Ship Sys. Eng.	738 408	851 678	1,171 420
D. Combat Crft. Combat Syst.	739	906	0
Efforts Funded	完成的	12224#26752 _{1;}	
A. CSS/ASC Boat Tech Support	3,453	2,329	1,712
1. SARs Prepared	882/ 88	960/ 96	*
2. Fleet Requirements	605/134	400/128	568/135
3. Eng. Mgmt/Log Plng Prog.	419/ 55	829/ 79	869/ 71
4. Private Sector Overhaul			
Management Support/FMP	85/ 40	67/ 40	200/ 34
Support (Availabilities)			
Other Requirement (Tasks)	78/ 20	73/ 15	75/ 11
6. NAMSO Salaries**	1,384		

^{*} Transferred to BA2, FMP in FY 86.

^{**} Transferred to BA7 in FY 1984. Included in FY 86 and outyears in the Surface Combatant Technical Support line.

В.	Con	abat Craft Support	FY 1984 \$738	FY 1985 \$851	FY 1986 \$1,171
	1.	Develop Technical Data	169	278	241
	2.	Survivability/Reliability Analysis	150	180	200
	3.	Engineering Improvements	169	263	200
	4.	Productivity Improvements	100	130	100
	5.	LCU/SLEP Program	-	_	230
	6.	Torpedo Tube Removal	150	_	200

III. Performance Criteria and Evaluation (cont'd)

Combat Support Ships/Amphibiouis Ships/Craft/Boats Technical Support (cont'd)

C. Combat Craft Support Ship Systems Engineering

Prepares Technical Repair Standard (TRS) manuals to provide in a single document all overhaul procedures, technical specifications, drawings, and acceptance criteria necessary to restore combat craft and support hull, maintenance, and engineering equipment to satisfactory performance specifications.

	FY 198	4 FY	FY 1985		986
	\$ Un	its \$	Units	\$	Units
Combat Craft SSE -TOTAL TRS's	408	678	3_	420	
- Revisions (Maintenance) - Development - Certification - Review - Verification - Complete Development Total TRS	127 13	113 394 1 394	_	47 60 168 36 36 73 420	12 17 60 10 10 20
SAPs Prepared	268	18 284	19	*	*

D. Combatant Craft Combat Systems Engineering

This program provides for scheduling and development of all combat system ship alteration proposals required to support and upgrade the combat systems of the Auxiliary and Amphibious Ships.

SAPs Developed	\$587	\$676	*
SARs Reviewed	46	118	*
BACDs Reviewed	106	112	*
Total	\$ 739	\$ 906	0

^{*} Transferred to BA 2 FMP in FY 86.

III. Performance Criteria and Evaluation (cont'd)

D. SUBMARINE SUPPORT

1. Submarine Logistic and Engineering Support

A. Submarine Technical Support

Provides engineering services for operating nuclear powered submarines in conjunction with NAVSEA efforts concerning maintenance and repair action from both private contractor and naval activities. The services include technical reviews, design investigations, and surveys. This involves the assignment of engineering personnel from lead design and planning activities to investigate and resolve fleet HM&E and combat weapons system technical interface problems and their integration into the ship platform. These services are provided in response to fleet casualty reports and technical requests. The program also supports the Naval Material Command's ability to respond and provide solutions to both hardware and software material problems which prevent submarines from maintaining their deployed/operational status. Additionally, the program develops new procedures, engineering standards, and specifications to ensure maximum fleet readiness conditions, and uses engineering and logistics personnel to help solve technical problems too complex for Forces Afloat personnel. The program provides logistics engineering support for all Nuclear Submarines currently deployed.

B. Submarine Ship System Engineering

This effort upgrades and maintains all Technical Repair Standards (TRS) as well as certifying the usability of existing TRS's, rewriting existing and developing new TRS's to provide consolidated overhaul specifications, and verifying all new and rewritten TRS's. TRS's provide in a single document all procedures, technical specifications, drawings, and acceptance criteria necessary to restore submarine HM&E equipment to original performance specifications. The upgrade of TRS's will improve the quality of submarine overhauls.

C. Submarine Periscope/Antenna

This program provides technical support for operation and problem resolution for various types of periscope systems such as Type 18, Type 15, Type 8 and Type 2. It supports the development of test procedures, standards, subsafe drawings, handbooks, and publications for fleet maintenance of these systems.

D. Submarine Combat System Engineering

Provides technical coordination of configuration management and control of the weapons, communication and ESM systems for operational submarines. This program encompasses about 128 submarines in the SSN 688 and SSBN 726 classes.

III. Performance Criteria and Evaluation (cont'd)

Submarine Logistic and Engineering Support (cont'd)

	FY 1984 \$ Units		Y 1985 Units		FY 198	
Total Program Funding	10,376	<u>, </u>	14,941		11,65	2
A. Submarine Technical Support	383232					
Total Sub. Technical Spt.	8,428	13	2,508		9,404	
Number of Submarines	129		134		137	
1. Logistic & Engineering Spt	5,959		5,783		6,623	
a. General Support (wy)	5,296	80	5,154	90	6,304	90
b. SSN 668 Class Support	27/	1 000	205		01/	0.50
(# Change Reg/Notes)		1,088	285 244	1,131	214	850
c. Maintenance Repair (# tasks) d. Electronics Eng Spt	249 140	17	100	17	105	-
d. Electionics and Spt	140		100		105	
2. Investigation & Studies	1,030	:	3,649		1,460	
a. HY80 Casting/MK 48 Impact	830		3,189		1,000	
av moot onesting, in the Emphasis	0	`	0		0	
b. Atmospheric Tests # Rpt	100	7	200	15	200	15
c. Hull Cathodic Protection	0		160		160	
d. Hull Inspect Hist (# Ships)	100	25	100	25	100	25
e. Service Life Extension	0					
f. Cloride Reduction						
g. Excess Material Study						
3. Material Systems Improvement	902		1,399		880	
a. 300KW MG Set	150		150		150	
b. 400/HZ Motor Generation	150		120		100	
c. Ultra Sonic Testing	95		396		200	
d. Electrolyic Oxygen Gen	175		200		200	
e. On-Board Material Eval	150		150		150	
f. Electromagnetic Log Sys Spt	45		33		80	
g. Arc Fault Detector Testing	25		-			
h. Steering & Diving	37		-		-	
i. Battery Improvement	_		350		-	
j. Ship Information Bookletk. Antenna	75		-		-	

III. Performance Criteria and Evaluation (cont'd)

Submarine Logistic and Engineering Support (cont'd)

		F	FY 1984 S Units		FY 1985 S Units		1986 Units
4. Pre-Sea Ti	rial Certifications	157	7/8	250	3/2	\$ 220	
(SSBN/SSI		137			- 3/2		1/12
5. Ship Alt F	Record Development	260	12	287	13	0*	0
6. Technical	Data Center Support	120		140		221	
Update Te	chnical Manuals		120		175	.	180
Filming F	Records (Pages)		13,500		15,000	16	,500
Microfich	ning (Cards)		500		600		700
	on Requests		225		250		275
* SARS Transf	ferred to PMP BA 2 account	In FY 86.					

B. Submarine Ship System Engineering

Total Sub. SSE Funding	525		820		813
TRS's					
- Revisions (Maintenance)	261	704	296	712	
- Maintenance					28 60
- Complete Revisions					262 644
- Development					3 8
-	261		296		293
Subs (\$/SAPs)	264/	18	524/	35	520/ 35

Unit costs vary with ship type as a function of system complexity and scope of alterations.

Benefits of Effort

Better overhauls of mission critical equipment, resulting in increased ship availability and reduced Fleet life cycle maintenance cost.

Decrease in CASREPS and on-board corrective maintenance time. Increase operational availability,

III. Performance Criteria and Evaluation (cont'd)

Submarine Logistic and Engineering Support (cont'd)

C. Submarine Periscope/Antenna Total Funding Sub. Per/Antenna	\$ 673	1984 Units	\$ 818	1985 Units	\$ U	1986 nits
Total Workyears		10.4		12.1		10.9
Tech. Spt for Oper- ational Periscopes	308	4.7	448	6.7	390	6.0
Configuration Manage- ment Support	145	2.3	151	2.2	137	2.0
Subsafe Drawing Requirements	30	0.5	30	0.4	34	.5
Development of Test Procedure, Manuals, Pubilications	60	.9	59	0.9	58	.8
In-Service Engineering	85	1.3	83	1.2	73	1.0
Standards	45	.7	47	0.7	42	0.6

D. Submarine Combat System Engineering (CSE)

Total Funding Sub. CSE	FY 1984 \$ Units 750	FY 1985 \$ Units 795	FY 1986 \$ Units 701
Total Workyears	13.6	13.	6 11.9
SARs Reviewed	42	42	38
BACDs Reviewed	76	75	66
Submarine Combat System Engineering	632	678	597

IV. Personnel Summary (End Strength). N/A

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Activity Group: Budget Activity: Claimant:

Intermediate Maintenance

7 - Central Supply and Maintenance

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed.
The Intermediate Maintenance Activity Group funds that maintenance which supports Organizational Level Maintenance. Its phases usually consist of calibration, repair or level replacement of damaged or unserviceable parts, components or assemblies; the manufacture of critical nonavailable parts; and technical assistance to organizations using the equipment. Intermediate maintenance of equipment is normally accomplished in fixed or mobile shops, tenders, shore based repair facilities, or by mobile teams.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

				FY 1985			
		FY 1984	Budget Request	APPRO- PRIATION	CURRENT ESTIMATE	-fy 1986 Sudget Request	CHANGE
	Point Defense Missile Systems Mines 2P Cog ASW	655 7,502 1,123 2,033	518 6,555 1,388 1,464	516 6,494 1,311 1,442	584 9,964 2,115 2,748	523 9,188 1,884 3,247	19 -776 -231 507
TOTAL,	, intermediate maintenance	11,313	9,925	9,763	15, 323	14,842	-481

B. <u>Re</u>	conciliation of Increases and Decreases		
1.	FY 1985 Current Estimate		\$15,323
2.	Pricing Adjustments		243
	A. Industrial Fund Rates B. Other Pricing Adjustments	(215) (28)	
3.	Program Increases		1,271
	A. Other Program Growth in FY 1986 1) Point Defense	(1,271) 7	
	2) Missile Systems Increased intermediate level support is required for SM-2 missile maintenance due to continued introduction into the fleet.	735	
	3) 2F Cog ASW Maintenance of an additional 9 Type 15 periscopes for SSBNs (93) and an additional 5 complex and heavily used Type 18 periscopes for SSNs (436).	529	
4.	Program Decreases		-1,995
	A. Other Program Decreases in FY 1986 1) <u>Missile Systems</u> Decreased test and assembly of 296 TERRIER missiles (-565); 114 SM-1 missiles (-426); and 248 special	(-1,995) -1,750	

weapons (-759).	
2) Mines Decrease in funding will result in a decrease in asset readiness from 68% in FY 1985 to 66% in FY 1986.	-224
3) 2F Cog ASW	-21

3) 2F Cog ASW	-21
Intermediate maintenance for 2F Cog-ASW	
sonar equipment is decreased by .2 workyears.	

5. FY 1986 President's Budget Request	\$14,842

III. Performance Criteria and Evaluation

A. SURFACE WARFARE SYSTEMS

1. Point Defense

Provides support for the 52 Basic Point Defense Surface Missile Systems installed on 34 ships of the fleet. Support includes:

Fleet Support Agent (Atlantic/Pacific) - provides intermediate maintenance and technical assistance to correct Casualty Reports (CASREPs) and remove, replace, or repair defective components. Each activity responds to a yearly average of 40 ship requests for technical assistance.

 FY 1984
 FY 1985
 FY 1986

 Total Funding, Fleet Support Agent
 \$655
 \$504
 \$523

The above funds support the following ship classes:

	FY 1984	FY 1985	FY 1986
	Ships 0/H	Ships 0/1	H Ships 0/H
PFs	19 -	12 -	9 -
CVNs	2 -	2 -	2 -
AMPHIBS	13 -	11 -	8 -
O/H = Overhauls			

2. Missile Systems Intermediate Maintenance

Intermediate level maintenance consists of the test and assembly of missile rounds prior to load out of combatant and deployed logistics support force ships. Missile electronics require certification by test equipment at least every three years as explosive components are service life limited. The CNO Asset Readiness Objective (ARO) is 86 percent. The four Naval weapons stations perform this effort. In FY 1986 funding is also provided to package & handle obsolescent material for TERRIER/TARTAR missiles prior to movement to inland storage points.

Number of ships supported are as follows:

	FY 1984	FY 1985	FY 1986
Extended Range Missile Combatants (CG, CGN, DDG)	31	31	31
Medium Range Missile Combatants	31	31	31
(CF, CGN, DDG, FFG)	88	93	95
Mobile Logistics Force (AOE, AE, AOR, AO)	27	27	27
(AOD, AD, AOR, AO	4/	21	21

III. Performance Criteria and Evaluation (cont'd)

Total Funding	FY 19 \$ 7,502	984 Units 3,199	FY 1 \$ 9,964	Units 4,141	FY 1 \$ 9,188	986 Units 3,568
TERRIER STD MSL-1 STD MSL-2 Special Weapons	266	131	865	406	357	110
	6,308	2,880	6,732	2,972	6,328	2,858
	228	57	1,175	405	1,990	490
	700	131	1,192	358	513	110

Units are the number of missiles ready for issue.

B. UNDERSEA WARFARE SYSTEMS

1. Mine Maintenance

The program supports cyclic maintenance of assembled weapons at prepositioned locations. It includes screening, testing, adjustment and replacement of mine components and field calibration/repair of test equipment. New series of mines entering the Fleet and different maintenance cycles for various weapons account for year-to-year variances in requirements.

	FY 1984	FY 1985	FY 1986
	\$ Units	\$ Units	\$ Units
Total Funding	1,123	2,115	1,884
Underwater Mines	918 5,516	1,607 5,834	1,413 4,602
Destructors	205 6,029	508 11,545	471 10,704

Units are the number of mines, destructors, and test equipment receiving maintenance.

III. Performance Criteria and Evaluation (cont'd)

2. 2F Cog Electronics ASW

The program provides pre-repair test and failure analysis; repair/replacement of damaged or unserviceable parts, components, modules, cables, or assemblies; manufacture of critical nonavailable parts; array and cable certification; post-repair test and calibration, and technical assistance to organizations using AN/WQM-6 and STASS 2F Cog USW equipment. Periscope maintenance is transferred from 2F Cog Electronics (P4XQ) in FY 1984.

Program requirements are based on quantities of installed equipment, the age of equipment, the cycle time required to repair items, the position of the installed equipment on the ship, issue rates of equipment to the fleet and emergent fleet problems. Costs include material, travel, shipping, and administrative support.

	\$FY	1984 Units*	FY 1	98 <u>5</u> Units	* FY 1	986 Units*
Total Funding	2,033	OHILB	2,740		3,247	01116
SSBN Sonar						
Equipment	303	2	338	1.9	329	1.8
Periscopes	103	12	203	23	296	32
SSN/ASW Ships Sonar						
Equipment	998	8	1,062	8.6	1,049	8.5
Periscopes	629	14	1,137	24	1,573	29

^{*} Units are workyears for sonar equipment and number of components for periscopes.

IV. Personnel Summary (End Strength). N/A

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY Exhibit OP-5

Program Package: Budget Activity: Maintenance of Real Property

7 - Central Supply and Maintenance

Claimant:

Chief of Naval Material (Naval Sea Systems Command)

I. Description of Operations Financed.

Maintenance of real property supports repair of and minor construction additions to naval facilities which are critical to preservation of fleet support activities. Funding in this activity group reflects Navy efforts to reduce the backlog of maintenance and repair at Naval facilities in accordance with Congressional direction to contain the backlog of repair projects by the end of FY 1988. The subactivities included under the Real Property Maintenance are described below:

- A. Maintenance of Real Property finances routinely scheduled maintenance and emergency repairs at Naval Shippards, Ordnance Stations, Supervisors of Shipbuilding, and other NAVSEA field activities. Major Repair Funding finances more substantial maintenance projects over \$75 thousand which are required to bring existing facilities into adequate condition to permit activities under the cognizance of the Chief of Naval Material to fulfill their assigned mission.
- B. Minor Construction finances projects under \$200K for alterations to facilities, extensions of utility systems, additions to existing facilities, and replacement of damaged or deteriorated facilities.

II. Financial Summary (Dollars Thousands)

A. Sub-Activity Group Breakout.

			FY 198		FY 1986	
	PY 1984	BUDGET REQUEST	APPRO- PRIATION	CURRENT ESTIMATE	BUDGET REQUEST	CHANGE
Major Repair Minor Construction	11,363 1,448	12,339 2,047	12,323 1,924	12,321 1,922	8,007 4,290	-4,314 2,368
morat Pacilities Maintenance	12,811	14,386	14,247	14,243	12,297	~1,946

Activity Group: Maintenance of Real Property (cont'd)

B. Reconciliation of Increases and Decreases

FY 1985 Current Estimate \$14,243
 Pricing Adjustments 89

A. Industrial Fund Rates (39)
B. Other Pricing Adjustments (50)

3. Program Increases

2,278

A. Other Program Growth in FY 86 (2,278)

1) Minor Construction (MC)

The realignment of 2,130 due to an increase in the MILCON threshold is included in the total increase of 2,278 and will be applied to support requirements for the upgrade of dry dock 4 at Supship San Francisco and planned welfare/recreation projects at six naval shipyards (992), the completion of Chapel Life Extension Program projects (60); and various minor construction projects previously deferred at 9 Ordnance Facilities (1,226).

4. Program Decreases

-4,313

- A. Other Program Decreases in FY 86 (-4,313)

 1. Maintenance of Real Property (MRP) -4,313

 Realignment of funds to Minor Constuction
 due to an increase in the MILCON threshold
 (-2,130); Decrease in maintenance projects
 at ordnance facilities and shipyards and a
 limitation on repair work to emergency
 services only. No funding is directed towards
 the reduction of the maintenance and repair
 backlog (-2,183).
- 5. FY 1986 President's Budget

\$12,297

III. Performance Criteria and Evaluation

Maintenance and Repair of Real Property

	FY 1984	FY 1985 Current Estimate	FY 1986 Budget Request
Backlog, Maint/Repair (\$000)	37,704	39,610	41,517
Total Buildings (KSF)	11,814	12,977	11,216

IV. Personnel Summary (End Strength) N/A

DEPARTMENT OF THE NAVY OPERATION & MAINTENANCE, NAVY

Exhibit OP-5

Program Package:

Other Base Operations

Budget Activity:

7 Central Supply and Maintenance

Chief of Naval Material (Naval Sea Systems Command) Claimant:

Description of Operations Financed.

The Other Base Operations Program provides support services and material support to NAVSEA field activities, enabling assigned forces and tenants to perform their mission. Funds are utilized for common military and civilian support functions which are not directly related to the industrial effort. The subactivities included in Other Base Operations are described below:

A. Utility Operations - includes costs of purchased utilities and also utility systems generation/distribution costs where applicable.

B. Personnel Operations

- 1. Bachelor Housing provides support for the operation of barracks, personnel housing, BOQs, BEQs, and the purchase and maintenance of personnel support equipment related to the housing of personnel.
- 2. Other Personnel Support provides for food service facilities, sales activities, laundry and dry cleaning facilities, initial procurement, repair, and replacement of furniture and furnishings, operation of chapels, and family service centers.
- 3. Morale, Welfare and Recreation provides authorized appropriated fund support for shore based recreational activities, special services, personnel support equipment, libraries, child care centers, clubs, and military and civilian general recreation facilities.
- 4. Medical/Dental Operations provides funding for the Naval Regional Medical/Dental Clinic at NAVWPNSUPCEN Crane, Indiana.
- 5. Human Goals provides support for Navy Drug and Alcohol programs through which personnel with alcohol or substance abuse problems are identified and counseled. Also provides funding for educational services for abuse prevention and operation of drug and alcohol rehabilitation facilities.

C. Base Operations - Mission

1. Retail Supply Operations - provides support for servicewide supply involving the receipt, inspection, packing of inert Navy material, the provision of technical information services, and the maintenance of stock records. Processes various Naval and DOD requisitions from Inventory Control Points (ICPs) and transaction reports to ICPs.

Activity Group: Other Base Operations (cont'd)

2. Other Base Services - provides support for base transportation and associated vehicle operation and routine maintenance, port services, service craft operation/maintenance, tool issues, and degaussing operations.

D. Base Operations - Ownership

- 1. Engineering Support provides support for public works departments, firefighting services, refuse collection and disposal, custodial services, and entomological services. Also funds planning, design and engineering support for facility projects.
- 2. Administration provides funding for off station activities and on-base tenants (as common support service) for the following functions: command and administration, civilian personnel services, legal assistance, accounting/auditing services, mail, travel administration, and other related common administrative support services.
- 3. Automated Data Processing provides the management support costs for in-house computer programming as well as equipment rental and other contractual ADP purchases.
- 4. Hazardous Waste provides support for the personnel, supplies, and training associated with the identification and disposal of hazardous waste material at NAVSEA facilities. Funding supports development of waste management plans, operations, maintenance, and repair of storage facilities, and treatment and disposal of toxic substances.
- E. Base Communications provides support for basic telephone equipment, installation, maintenance, removal, and service charges at NAVSEA headquarters and field activities. Provides for the costs of administrative communication systems, base telecommunication networks, and industrial security networks. Excludes industrial funded systems or those operational telecommunication activities directly supporting fleet operating forces.

11. Pinancial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- pristion	Current Estimate	Budget Request	Change
Communications	5,563	5,270	4,709	5,728	5,284	-444
Utilities	9,682	10,534	10,280	10,250	9,632	-618
Personnel Operations	9,167	7,980	7,960	7,959	9,859	1,900
Base Operations Mission	20,024	18,657	18,629	18,628	17,829	-799
Base Operations Ownership	14,131	15,220	14,691	14,295	13,532	<u>-763</u>
Total Other Base Operations	58,567	57,661	57,269	56,860	56,136	-724

Activity Group: Other Base Operations (cont'd)

B. Reconciliation of Increases and Decreases

1.	FY 1985 Current Estimate		\$56,860
2.	Pricing Adjustments A. Industrial Fund Rates B. Other Pricing Adjustments	(-359) (420)	61
3.	Program Increases		3,716
	A. Other Program Growth in FY 1986 1) Base Communications Increase in communication requirements at shipyards and ordnance facilities due to increase in workload.	(3,716) 174	
	2) Personnel Operations Increase to replace worn linen and material for bachelor quarters (161); increase to Other Personnel Support to maintain food service, laundry and dry cleaning operations, and chapel operations (677); increase in Morale Welfare and Recreation to support operation of clubs and messes, expand library operations, increase special services support and maintain military and civilian recreation operations (953); increase in Human Goals to support operations in Drug Education and Substance abuse counseling (117).	1,908	
	3) Base Operations Mission Increase in Retail Supply Operations to accommodate an increase in receipts and issues of requisitions.	203	
	4) Base Operations Ownership Increase in Administration to support additional industrial relations services at Naval Shipyards Portsmouth and Norfolk and to maintain civilian personnel services to tenants on a common support basis (536); increase in Hazardous Waste Operations to fund scheduled clean-up of hazardous waste dump on Mare Island and it continue compliance	1,431	

with various state and EPA regulations (895).

Activity Group: Other Base Operations (cont'd)

B. Reconciliation of Increases and Decreases (cont'd)

4.	4. Program Decreases							
	A.	Other Growth Decreases in FY 1986	(-4,501)					
		1) Utilities Decrease in energy use at shipyards and ordnance stations as a result of increased energy conservation.	-651					
		2) Base Communications Decrease in headquarters communications funding due to projected Defense telephone Service billing.	-827					
		3) Base Operations - Mission Reduction in Other Base Services support for enhanced security, operations and maintenance of transportation, port services, and tool issues.	-774					
		4) Base Operations - Ownership Other Engineering Services in reductions of public works administration and engineering services to tenants, (-847); reduced leasing of office spaces (-280); and significant reductions to custodial, trash collection and entomological control efforts (-1,122).	-2,249					

\$56,136

Activity Group: Base Operations (cont'd)

III. Performance Criteria and Evaluation

9,682 191,060 423,575 5,563	10,250 192,000 440,000	9,632 190,000 430,000
423,575		
5,563		430,000
	5,728	5,284
15,488 6,206 325,000	15,488 6,206 375,000	15,488 6,206 350,200
9,167	7,959	9,859
937 230 3,084	956 230 3,456	1,106 230 3,456
4,479 114,909 66,405 48,504	4,505 116,272 67,249 49,023	5,187 118,756 69,376 49,380
3,571 173,646 87,893 85,753 118 62	2,424 167,194 81,301 85,893 74 0	3,372 175,448 89,140 86,308 77 117
20,024	18,628	17,829
3,681 75 87 86 16,343 353	2,830 78 90 89 15,798 366	3,101 78 93 91 14,728 370
14,131	14,295	13,532
6,488 4,361 19 18 1 3,208	6,671 4,569 19 18 1 2,983	4,446 5,116 19 18 1 3,896
	15,488 6,206 325,000 9,167 937 230 3,084 4,479 114,909 66,405 48,504 3,571 173,646 87,893 85,753 118 62 20,024 3,681 75 87 86 16,343 353 14,131 6,488 4,361 19 18	5,563 5,728 15,488 15,488 6,206 325,000 37,000 375,000 9,167 7,959 937 956 230 230 3,084 3,456 4,479 4,505 114,909 116,272 66,405 67,249 48,504 49,023 3,571 2,424 173,646 167,194 87,893 81,301 85,753 85,893 118 74 62 0 20,024 18,628 3,681 2,830 75 78 87 90 86 89 16,343 15,798 353 366 14,131 14,295 6,488 6,671 4,361 4,569 19 18 1 19 18 1 1 1,298 18 1,569 19 18 <t< td=""></t<>

Activity Group: Base Operations (cont'd)

- III. Performance Criteria and Evaluation (cont'd)
- IV. Personnel Summary (End Strength). N/A

Department of the Navy Operation and Maintenance, Navy

Activity Group: Electronic Systems Rework and Maintenance

Budget Activity: VII Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed.

Air Station Restoration - The Air Station Restoration program provides overhaul and repair of failed electronic equipments for communications, surveillance, air traffic control and navigational aid (TACAN). Equipments are sent to an overhaul activity and dismantled, rebuilt, bench-checked and operationally tested at an overhaul activity prior to return to operational use. Other larger, less mobile systems are overhauled at the air station, in place, by field teams on a scheduled basis to preclude loss of operational capability for extended periods. Resource requirements are based on availability of equipment through repair, overhaul schedules, failure rates and the quantity usage and age of equipments.

Marine Air Traffic Station Control Squadron (MATCS) - The MATCS Depot Maintenance program provides for the complete restoration of system/sub-system end items according to a predetermined duty cycle supporting Marine Corps aviation combat readiness postures. Through an intensive inspection process, field maintenance reporting system, components at tactical units are identified for induction into depot facilities for the restoration/overhaul process. Many of these equipments are of the Vietnam era and remain functional to the mission by virtue of depot capabilities. Depot rework increases system availability providing safety of flight margins that minimize the risk of aircraft and pilot loss.

2Z Cog Electronic Restoration - This program finances restoration of failed communications, surveillance and countermeasures equipments, and aging navigation (TACAN) and tactical data systems (LINK 11). Equipments are sent to an overhaul activity and dismantled, rebuilt, bench-checked and operationally tested at a depot prior to return to operational use. Other larger systems are overhauled in place, afloat, by field teams on a scheduled basis to preclude loss of operational capability for extended periods. Also financed under this program is the removal and restoration of equipments from stricken ships, to provide an alternate source to new procurement for new ship construction. NAVELEX utilizes the support of NAVSEA shipyards to support a segment of its restoration program.

Standards, Calibration and Repair - This program funds calibration and repair of all electronic standards which are laboratory devices used to calibrate other test equipments of lesser accuracy.

Test Equipment Maintenance - Provides for the calibration and repair incidental to calibration, of all fleet-held electronic and electrical test, measurement and diagnostic equipment (TMDE). These equipments are used to install, align, adjust, operate and maintain all prime electronic and electrical systems in use aboard ships of the active fleet to ensure the material readiness of all radar, sonar, communications, countermeasure, surveillance, navigation, and propulsion systems.

I. Description of Operations Financed (cont'd)

Precise Time and Time Interval (PTTI) - This program provides depot level repair and maintenance of Verdin 0-1695 Cesium Beam Frequency Standards (CBFS), which require an emergency replacement capability for inoperative units onboard nuclear submarines: the AN/URO-23 Frequency Time Standard; the SG-1157/V Digital Processing Clock; and Army owned frequency standards under the Defense Satellite Communications System program..

Crytographic (Crypto) Repair - This program finances all depot costs for the maintenance, overhaul, repair and modification of fleet cryptographic devices/items and systems that are beyond the capability of the fleet maintenance personnel to perform and all COMSEC depot maintenance interservicing requirements. This includes all Naval/Marine Corps aircraft installed COMSEC equipment and COMSEC equipment used by the Coast Guard ships forces: all depot level repair/overhaul and modification of the new generation micro-miniature (MICROMIN) constructed COMSEC equipment/devices used in the Naval establishment (including MARCOR and COGARD); and overhaul of all Director, COMSEC Material System (DCMS) managed non-RFI COMSEC assets to meet validated fleet requirements.

Coast Guard Support - Pursuant to agreements between the Department of the Navy and the Department of Transportation, this program provides for reimbursement to the Coast Guard for the installation of new electronic equipment to replace obsolete Navy-owned equipment, and for the overhual and maintenance of electronic equipment furnished by the Navy. The electronic material provided to the Coast Guard consists of shipboard electronic test equipment, components and subassemblies to maintain the Coast Guard in a state of readiness to function as a specialized service of the Navy in time of war.

RADIAC Depot Maintenance - This program calibrates and maintains radiation detection, indication and computation (RADIAC) equipment in a continuous state of operability and readiness within the Navy, Coast Guard, Military Sealift Command, and elements of the Marine Corps. Of the approximately 38,000 Radiac equipments in use, 23,000 are used to measure levels of radiation exposure in medical, nuclear power, weapons handling and radiography applications. Approximately 15,000 additional instruments are positioned on Navy ships and at shore facilities to be used for personnel safety and radiation level measurement in event of nuclear disasters or nuclear warfare. Radiac equipment must be kept operable in order that personnel, equipment and the environment can be adequately monitored and controlled within medical and legal safety limits of exposure, and maintain the Navy's ability to apply appropriate measures in the event of nuclear war or disaster.

Anti-Ship Missile (Electronic Warfare) System (ASM/EW) - Provides an EW capability to automatically detect, sort and classify, track and continuously display RF emitters, platform types and bearings in the relevant electromagnetic environment, plus automatic electronic countermeasures response on search, targeting and missile associated emitters. Depot Maintenance provides comprehensive overhaul and repair services to Fleet units and installation activities. Efforts range from piece part repair of the shipboard replaceable assemblies (SRA) up to Class B overhauls, and maintaining bonded storage of installation checkout (INCO) stock spares.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout

			FY 1985		FY 1986	
		Budget	Appro-	Current	Budget	
	FY 1984	Request	priation	Estimate	Request	Change
Air Station Restoration	7,234	8,476	8,098	8,134	10,233	2,099
MATCS	2,412	3,242	3,169	3,192	3,232	40
2Z Cog Restoration	12,016	14,076	13,684	13,760	14,129	369
Standards, Cal and Repair	4,776	6,730	6,471	6,468	7,881	1,413
Test Equip Maint	15,134	16,378	15,958	14,813	17,405	2,592
PTTI	269	294	288	293	303	10
Cryptographic Repair	6,853	9,302	9,098	9,061	10,874	1,813
Coast Guard Support	3,518	2,941	2,900	2,891	6,540	3,649
RADIAC Repair	4,190	5,430	5,350	5,333	6,710	1,377
Anti-Ship Missile (EW)	10,887	12,486	12,375	13,303	7,459	- <u>5,844</u>
Total O&M,N	67,289	79,355	77,391	77,248	84,766	7,518

B. Reconciliation of Increases and Decreases.

1.	FY	1985 Current Estimate		77,248
2.	Pri	cing Adjustments		-1,114
	A. B. C.	Stock Fund 1. Non-Fuel Industrial Fund Rates Other Pricing Adjustments	(-63) -63 (-1,205) (154)	
3.	Pro	gram Increases		15,014
	A.	Other Program Growth in FY 1986 1. Air Station Restoration - Increase provides for overhaul and restoration of AN/SPN 41,42, 43 systems, (911); Aircraft Landing Systems (ACLS) (814); Antenna systems and various communication equipments (585); introduction of FACSFAC at 1 additional air station (155). Total overhauls and restorations are increased by 313 to maintain Air Station operations ensuring the safety of personnel and aircraft.	(15,014) 2,465	
		2. MATCS - represents an increase in Depot Level Repairables (DLRs).	55	
		3. 2Z Cog Restoration - Increase provides funds to restore, overhaul and repair 80 additional units of electronic equipment (570), NTDS LINK 11 (74), ACLS (6), TACAN (12) to maintain Fleet Readiness.	662	
		4. Standard, Calibration & Repair Provides 3,211 additional calibrations.	1,420	
		5. Test Equipment Maintenance ~ Increase provides an additional 10,858 calibrations in support of additional GPETE delivered to the the Fleet. The depot maintenance backlog will be reduced to 59,873 with this effort.	3,066	

B. Reconciliation of Increases and Decrease (cont'd)

- 6. PTTI Represents an increase of 20 calibrations/restorations of Cesium standards.
- 7. Crytographic Repair Provides 1,985 4,212 additional cryptographic depot maintenance/overhaul repair actions and will reduce the backlog by 2,482 end items.
- 8. Coast Guard Provides for the 3,794 overhaul and/or maintenance of an additional 2,363 units of electronic equipment, with a backlog of 1,345 units still remaining.
- 9. Radiac Repair Increase will permit the Radiac Repair Facilities to calibrate an additional 7,538 units.

4. Program Decreases

-6,382

1,553

-5,969

- A. Other Program Decreases in FY 86 (-6,382)

 1) Air Station Restoration -413

 Decrease of 4 Extensive Field

 Maintenance Restorations.
 - 2) ASM(EW) Funding decrease will reduce the number of class B AN/SLQ-32(V) overhauls by 18 in FY 1986 (-5492). Also the number of emergent AN/SLQ-32 (V) Systems Replaceable Units/Shiphoard Replaceable Assemblies (SRU/SRA) repairs which can be inducted into the Designated Overhaul Point (DOP) will be reduced by 104 in FY 1986 (-477).

5. FY 1986 President's Budget Request

84,766

III. Performance Criteria and Evaluation (cont'd)

Air Station Restoration

	FY 1984	FY 1985	FY 1986
	Units/\$000	Units/\$000	Units/\$000
Electronic Restorations Required	874/	1,070/	1,417/
Electronic Restorations Extensive Field Maintenance	330/4,962 17/1,845	519/5,673 17/1,845	736/ 8,042 13/ 1,413
Restorations FACSFAC	280/ 427	400/ 616	500/ 778
TOTAL Restorations Financed	627/7,234	936/8,134	1,249/10,233

Air Station funds support a mix of repair programs including ground control, TACAN, ACLS and communication equipments. As these systems age, the amount of restoration required becomes more extensive. Increased restoration in turn drives repair cost growth beyond normal inflationary increases. This problem is amplified in systems such as the ACLS in which the average age of operational units is 20 years. Due to safety considerations and other factors, NAVELEX is tightening ACLS overhaul specifications and strengthening the ACLS QA process, thereby increasing costs beyond that experienced in the past.

Additional Fleet Area Control Surveillance Facilities (FACSFAC) will be introduced. Currently there are four air stations maintained by FACSFAC. These will expand to five in FY 1985 and to six in FY 1986. In FY 1984, NAVELEX inducted 280 repair actions in support of these systems and projects, an increase up to 400 repairs in FY 1985 and up to 500 in FY 1986.

MATCS

	FY	1984	FY	1985	FY 1	986
	Unit	s/\$000	Unit	s/\$000	Units/	\$000
Systems Restoration Required	50/		46/		45/	
Instrument Landing System (ILS)			7/	231	12/	420
RADAR Surveillance Central	2/	466*	3/	704*	3/	333*
RADAR Overhaul Kit	3/	743	6/	953	4/	832
UHF Beacon	2/	116	3/	162	4/	232
			4/	120	5/	165
Mobile ATC Tower	10/	350	10/	390	12/	516
Generators	11/	198	11/	242	5/	165
Antennas & Mobilizers	0/	458	0/	247	0/	413
DLR's	- ·			143	0/	156
Test & Support Equipment	0/	81	0/	143	07	130
Other						
TOTAL Restorations Financed *Various configurations	28/2	,412	44/3	3,192	45/3	3,232

III. Performance Criteria and Evaluation (cont'd)

22 Cog Electronic Restoration

	FY 1984	FY 1985	FY 1986
	Units/\$000	Units/\$000	Units/\$000
Electronic Restorations Required	776/	1,114/	1,330/
Electronic Restorations TACAN Reliability Improvement Prog Tactical Data Systems (IINK J1) Aircraft Carrier Landing Systems	649/ 6,848 34/ 1,380 5/ 2,855 3/ 933	798/10,008 34/ 1,394 3/ 1,730 2/ 628	878/10,281 34/1,407 3/1,807 2/634
TOTAL Electronics Restorations	691/12,016	837/13,760	917/14,129

Standards, Calibration and Repair

	FY 1984	FY 1985	FY 1986
	Units/\$000	Units/\$000	Units/\$000
Calibrations Required Calibrations Financed		47,612/ 37,763/6,468	54,146/ 40,974/7,881

Standards are calibrated every nine months at eight shipyards, thirty intermediate maintenance activities, two contractor facilities and three ship repair facilities. A substantial number of standards are being procured and delivered in the FY 1984-1986 timeframe, which increases the calibration requirements during these years. By the end of FY 1985, an additional 3,445 standards will be procured, which will entail 4,478 calibrations per year. By the end of FY 1986, 8,472 additional standards will have been procured, increasing the laboratory workload by 11,012 calibrations above the FY 1984 requirement.

Test Equipment Maintenance

	FY 1984	FY 1985	FY 1986
	Units/\$000	<u>Units/\$000</u>	<u>Units/\$000</u>
Calibrations Required Calibrations Financed	148,141/ 100,226/15,134	157,784/ 92,007/14,813	164,095/ 104,222/17,405

III. Performance Criteria and Evaluation (cont'd)

Test Equipment Maintenance (cont'd)

Additional GPETE has been provided to the fleet: in FY 1983 4,931 units, FY 1984, 2,180 units, FY 1985 5,804 units and in FY 1986 8,688 units. By FY 1986 the calibrations required by NAVELEX will increase by 10,000 per year. NAVELEX will be required to calibrate approximately one half of the procurements, with the fleet calibrating the remainder. Calibrations financed in FY 1984 and out are only 65% of the total requirement. Additionally, the standards at Fleet activities are inadequate, causing more fleet test equipment overflow to NAVELEX funded laboratories.

Precise Time and Time Interval

	FY 1984	FY 1985	FY 1986
	MY/\$000	MY/\$000	MY/\$000
PTTI Calibration/Restoration Requirement (Quantity)	481	504	534
Cesium Standards Other Clocks Time Frequency Equipment TOTAL PTTI Units Calibrated/Restored	441/243 12/ 20 16/ 6 469/269	423/268 15/ 22 <u>8/ 3</u> 446/293	443/279 14/ 21 <u>9/ 3</u> 466/303
Cryptographic Repair	•		
	FY 1984	FY 1985	FY 1986
Number of maintenance actions required	33,465/	33,500/	35,015/
Record and data crypto equipment Secure Voice crypto equip Codes changes permuters, key guns, card readers and	12,951/5,502 6,250/ 931	14,608/7,196 7,790/1,345	14,705/8,249 9,800/1,754
common fill devices Crypto special test equipment Off line and misc. crypto	5,280/ 391 30/ 2	5,650/ 486 30/ 3	7,300/ 715 120/ 13
equipment	120/ 27	120/ 31	485/ 143
TOTAL Number of maintenance actions financed	24,631/6,853	28,198/9,061	32,410/10,874

III. Performance Criteria and Evaluation (cont'd)

	FY 1984	FY 1985	FY 1986
Coast Guard Support	Qty/\$000	Qty/\$000	Qty/\$000
Number of vessels supported Overhaul and maintenance	177/	177/	177/
requirements	5,124/	5,759/	5,759/
Number of units over- hauled and maintained	2,498/ <u>3,518</u>	2,051/2,891	4,414/6,540
TOTAL Cost of Units funded	\$3,518	\$2,891	\$6,540
RADIAC Repair			
Calibrations required Number of units funded	70,000 36,002	70,000 42,822	70,000 50,360
Unit Cost	116.38	8 124.5	4 133.24
TOTAL Costs of units funded	\$ 4,190	\$5,333	\$6,710
ASM(EW)			
Planned Overhaul/ Refurbish Systems Financed Overhaul/	13/	33/	35/
Refurbish Systems	13/5,642	32/9,838	14/4,438
Planned Depot Maint of Spares (SRU/SRA/INCO) Financed Depot Maint of	810/	300/	245/
Spares (SRU/SRA/INCO)	810/5,245	300/3,465	196/3,021
TOTAL ASM(EW) Financed	\$10,887	\$13,303	\$7,459

Note 1: The average unit cost of refurbishments is dependent upon the workload (economic quantity) and the mix of SLQ-32 variants.

Note 2: The average unit cost of repair is dependent upon the mix of SRUs/SRAs and predicted failure rates per operational system.

IV. Personnel Summary - NONE

Department of the Navy Operation and Maintenance, Navy

Activity Group: Procurement Operations

Budget Activity: Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Project Management Offices - Program provides administrative staffs who support "cradle-to-grave" responsibility for special mission programs by maintaining effective centralized procurement engineering and technical services in support of acquisition and logistics support and other procurement related activities. They exercise systems integration and coordination to ensure a fully coordinated and timely effort for the following efforts: Navy Space Project Office, REWSON Systems Project Office, Joint Tactical Information Distribution System Project Office, Communications Systems Project Office, Command Systems Project Office, Undersea Surveillance Project Office and the Marine Corps Systems Project Office.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout

	FY 1984	Budget Request	FY 1985 Appro- priation	Current	FY 1986 Budget Request	Change
Project Management Offices	36,095	36,461	36,453	36,069	36,292	223
Total O&M,N	36,095	36,461	36,453	36,069	36,292	223

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate	36,069
2.	Pricing Adjustments	-924
	A. Civilian Personnel Compensation (Direct) (-933)	
	1. US Direct Hire Pay Adjustment -1,245	
	2. Other Direct Pricing Adjustments 312	
	B. Stock Fund (-4)	
	2. Non-Fuel -4	
	C. Industrial Fund Rates (-17)	
	D. Other Pricing Adjustments (30)	

3. Program Increases

1,147

258

- A. Other Program Growth in FY 1986 (1,147)

 1) Increase will provide for equipment 325
 rental leases and maintenance costs
 due to buyout (79); for increased supplies,
 ADP Services and printing (63); growth will
 provide for 5 work years to balance FY 1985 and
 out civilian ceiling increases for the
 JTIDS Program (183)
 - 2) An additional 6 end strength to Surveillance Towed Array Sonar System (SURTASS) these billets are required to support Operation and Maintenance LANT/PAC based TAGOS/SURTASS ships and shore facilities and to coordinate new training.
 - 3) Growth will provide 14 additional end 564 strength for the following efforts:

REWSON Systems project Office – four end strength to provide engineering expertise in support of a new start C^3 CM (Countermeasures) program which is being phased into the REWSON Project Office in FY 1986.

Five end strength (EW) - provide engineering expertise in support of a new start "Air Electronic Buoy (AEB) Chaff Buoy" being phased into the Electronic Warfare area in FY 1986.

Navy Space Systems Project Office - Four end strength to provide for acquisition management integrated engineering for the NAVSTAR at Warner Robbins AFB.

Communications Systems Project Office - One end strength in Strategic Communications growth to provide engineering expertise for new systems being installed and baseline mangement/standard plans relating to shipboard tactical communications systems.

4. FY 1986 President's Budget Request

36,292

III. Performance Criteria

SUMMARY PERFORMANCE CRITERIA PROCUREMENT OPERATIONS

	FY 1984	FY 1985	FY 1986
NAVY SPACE PROJECT	3,461	4,074	4,296
REWSON SYSTEMS PROJECT	5,692	5,748	6,030
JOINT TACTICAL INFORMATION DIST. SYSTEM	. 1,140	2,082	2,516
COMMUNICATION SYSTEMS PROJECT	8,369	8,599	8,427
COMMAND SYSTEMS PROJECT	11,655	11,359	10,901
UNDERSEA SURVEILLANCE OFFICE	2,530	2,488	2,563
MARINE CORPS PROJECT	1,695	1,719	1,559
INTEGRATED TACTICAL SURVEILLANCE SYSTEM	1,553	TRANSFERRED	•
			
	36.095	36,069	36,292

NAVY SPACE PROJECT OFFICE

The Navy Space Project Office exercises program management, including design, development, procurement and operational use of all Navy Space Systems, This responsibility includes all activities within the purview of the Naval Material Command and related to the Military use of Space, including but not limited to broad areas of: Communications, Navigation, Surveillance, Environmental Observations, Space Defense and Geodesy.

FUNDING	FY 1984	FY 1985	FY 1986	
PROFILE:	3,461	4,074	4,296	

REWSON SYSTEMS PROJECT OFFICE

REWSON Systems Project Office supports the system integration and coordination authority with respect to Reconnaissace, Electronic Warfare, Special Operations, and Naval Intelligence Systems. The project office manages the design and operational applications of all electronic equipments and systems to ensure compatibility between the various systems and subsystems, and that cost effective capabilities are developed and produced.

FUNDING	FY 1984	FY 1985	FY 1986
LONDING	11 1704	11 1000	
PROFILE:	5,692	5,748	6,030
PROFILE:	2.022	J./40	0.000

JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) PROJECT OFFICE

The JTIDS Project Office manages (1) the full scale development to satisfy the requirements to the Joint Tactical Information Distribution System for Navy and Marine Corps applications; (2) the development of related support equipment; (3) integration of the systems in various tactical platforms; and (4) the associated technical and management data.

III. Performance Criteria (cont'd)

JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) PROJECT OFFICE (cont'd)

FUNDING PROFILE:

 $\frac{\text{FY } 1984}{1,140}$

FY 1985 2.082 FY 1986 2,516

COMMUNICATIONS SYSTEMS PROJECT OFFICE

The Communications Systems Project Office manages communication systems assigned by COMNAVELEX to satisfy the mission of assuring positive command and control of strategic and tactical forces ashore and afloat. Management authority and responsibility encompasses End-To-End Planning, Development, Test and Evaluation, Acquisition and integration of all Navy Advanced Communications Security Systems, Display Systems, Data Links and Strategic and Tactical Communication Systems.

FUNDING PROFILE:

FY 1984 8,369 FY 9185

FY 1986

COMMAND SYSTEMS PROJECT OFFICE

The Command Systems Project Office exercises systems management authority and project management execution for Command Systems Engineering, including Navy Command and Control Systems (NCCS) Ashore, Tactical Flag Command Center (TFCC), Ocean Surveillance Information System (OSIS), Anti Submarine Warfare Operations Centers (ASWOC), World Wide Military Command and Control System (WWMCCS), Remote Sensors Systems, FACSFAC, Surveillance and Navigation Systems, Over The Horizon Targeting (OTH-T) Projects, ATC/Landing, Tactical Data Links, IFF Systems, Air to Ground Communications, and Battle Group Tactical Training System.

In addition, it provides support engineering and administration of the ASWOC Program at the engineering development and system prototype facility. Activities include support of both the Baseline ASWOC systems supervision of Hardware and Software maintenance and target USW Technologies and Threats.

FUNDING PROFILE:

FY 1984 11,655 FY 1985 11,359 FY 1986 10,901

UNDERSEA SURVEILLANCE OFFICE

The Undersea Surveillance Office was established in April 1972 as the successor to project Caesar and was tasked to developed an integrated undersea surveillance system, including responsibility for management and technical control of the Naval Electronic Systems Command Undersea Surveillance Program in advanced development, engineering development and operational development.

The program is comprised of fixed bottom mounted arrays, and towed arrays whose mission is to assist tactical forces in the detection of potential enemy submarines throughout wide ocean areas.

FUNDING PROFILE:

FY 1984

FY 1985 2,488 FY 1986 2,563

III. Performance Criteria (cont'd)

MARINE CORPS SYSTEMS PROJECT OFFICE

The Marine Corps Systems Project includes Marine Corps, Navy, and other customer (Air Force, Army and FMS) funded programs and provides material support to the Marine Corps. Projects include Facilities, Equipment, Procedures, Software, Personnel Training and the Integration of Subsystems for use of the Fleet Marine Forces as an integral part of the Naval Operating Fleets. It also involves those systems assigned to the Marine Corps for development in support of other U.S. Military Forces or Allied Forces. The project also provides the PPBS, Development, Testing, Production, and Life Cycle Management for Fleet Marine Forces Air Traffic Control and other USMC Aviation Support Systems.

FUNDING PROFILE:

 $\frac{\text{FY } 1984}{1,695}$

FY 1985

FY 1986

INTEGRATED TACTICAL SURVEILLANCE SYSTEM PROJECT OFFICE

FUNDING

FY 1984

FY 1985 and out transferred to Field Operations

Activity Group.

PROFILE:

1,553

IV.	Per	sonnel Summary	FY 1984	FY 1985	FY 1986
	A. Military E/S		<u>36</u>	<u>38</u>	<u>37</u>
		Officer Enlisted	32 4	32 6	31 6
	В.	Civilian E/S	825	<u>841</u>	<u>861</u>
		USDH	825	841	861

Department of the Navy Operation and Maintenance, Navy

Activity Group: Command & Administration

Budget Activity: Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

The Command and Administration program provides and organization which plans, develops, executes and manages the activities, processes and systems to meet the Command's mission. This organization administers the functions of the Counsel, Inspector General, Office of Small Business, Congressional and Public Affairs, Command Deputy Equal Employment Opportunity Office, International Programs Scientific and Technical Intelligence Liaison Office, Mobilization/Contingency Plans and Operations Office, Comptroller Directorate, Administrative Services Division and other administrative offices which provide support to the Commander.

II. <u>Financial Summary</u> (Dollars in Thousands).

A. Sub-Activity Breakout

	 FY 1984	Budget Request	FY 1985 Appro- priation	Current	FY 1986 Budget Request	Change
Command and Administration	7,827	5,884	5,884	6,106	5,911	-195
TOTAL O&M,N	7,827	5,884	5,884	6,106	5,911	-195

Activity Group: Command & Administration (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate		6,106
2.	Pricing Adjustments		-139
	A. Civilian Personnel Compensation (Direct) 1. US Direct Hire Pay Adjustment 2. Other Direct Pricing Adjustments B. Stock Fund 1. Non-Fuel C. Industrial Fund Rates D. Other Pricing Adjustments	(-127) -170 43 (-16) -16 (-21) (25)	
3.	Program Increases		125
	A. Other Program Growth in FY 1986 1) Increase in equipment maintenance due to buyout (75) increased comsumption of supplies, materials, printing (50).	(125) 125	
4.	Program Decreases		-181
	A. Other Program Decreases in FY 1986 1) Decrease in planned purchase of Systems Furniture (-93); decrease in other personnel compensation and lowered average salary (-17), decrease in equipment rental due to buyout (-71)	(-181)	
5.	FY 1986 President's Budget Request		5,911

III. Performance Criteria and Evaluation

The Command and Administration program provides the staff necessary to manage headquarters functions as defined by the Secretary of Defense, directs Command-wide policy and planning, and controls and allocates financial resource and manpower to provide efficient support of mission in conformance with legal and regulatory limitations and evaluations, Command-wide and in support of field activity management units.

IV. Personnel Summary

A. Military E/S	<u>FY 1984</u>	FY 1985	FY 1986	
	<u>15</u>	15	14	
Officer	11	13	12	
Enlisted	4	2	2	
B. Civilian E/S	FY 1984	FY 1985	FY 1986	
USDH	157	154	154	

Department of the Navy Operation and Maintenance, Navy

Activity Group: Field Operations

Budget Activity: Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Field Operations - This program finances the day-to-day operations of the field activities management personnel (supervisory, financial, contractual and administrative) including costs for office supplies and equipment, mission travel, administrative training, data processing, printing and reproduction, transportation of things, costs associated with ADP(maintenance and leasing), general technical report production, and audiovisual. The Field Operations program provides electronic support to all Navy & Marine Corps installations.

Operational Support - Field - This program finances the salaries, administrative expenses and travel of personnel who are engaged in the design, development, acquisition, and logistics support of surveillance, space, intelligence, security, command and control, communications, electronic warfare, air traffic control, and navigational systems for the field activities. Additionally, the Operational Support - Field program develops and manages a technical program to ensure the security and integrity of Navy ADP systems, acts as the lead agency for the laser safety program and is the primary technical authority for electronic standards, standardization, techniques, practices and compatibility.

II. <u>Financial Summary</u> (Dollars in Thousands).

A. Sub-Activity Breakout

A. Dub Activity Dice	arout	FY 1985				
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Field Operations Operational Support -	26,483	30,144	29,068	28,935	29,913	978
Field	22,391	17,432	17,390	18,853	20,946	2,093
Total O&M,N	48,874	47,576	46,458	47,788	50,859	3,071

. <u>B</u>	econciliation of Increases and Decreases.		
1.	FY 1985 Current Estimate		47,788
2.	Pricing Adjustments		-722
	A. Civilian Personnel Compensation (Direct) 1. US Direct Hire Pay Adjustment 2. Other Direct Pricing Adjustments B. Stock Fund 1. Non-Fuel C. Industrial Fund Rates	(-979) -1,176 197 (-46) -46 (-4)	
	D. Other Pricing Adjustments	307	
3.	Functional Program Transfers		1,999
	A. Transfers In 1. Inter-Appropriation Expense/Investment Criteria Revision - Amounts transferred from Other Procurement, Navy (Shore Electronic Items under \$900K and the Computer Aquisition Program) pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as a governing factor [Field Operations (279), and OP Support-Field (1,720)].	(1,999) 1,999	
4.	Program Increases		1,794
	A. Other Program Growth in FY 1986 1. Op Support-Field Increase of 9 work years to support an FY 1986 increase of civilian end strength (295); increase in NARDAC utilization costs (203); increase in printing costs (15); purchase of mission essential equipment and supplies (182); increase in training (102); increase in equipment maintanance due to buyout of leased equipment (64); lease of additional photocopier (24).	(1,794) 885	
	2. Field Operations Increase in equipment maintenance due to buy out of leased equipment (321); change in mix of GS/GM (211); increase in printing (6); increase in systems analysis and programing (96); increase in training (150); increase in supplies and materials (99); rental of additional copier machine (26)	909	
6.	FY 1986 President's Budget Request		50,859

Activity Group: Field Operations (cont'd)

III. Performance Criteria and Evaluation

Field Operations

IV.

The Naval Electronic Systems Command (NAVELEX) Field operations are comprised of 4 Naval Electronic Systems Engineering Centers at Charleston, San Diego, Portsmouth and Vallejo and 1 Systems Engineering Activity located at St. Inigoes, MD. Strategically located shore activities provide planning, implementation, coordination and management control of shore and shipboard electronic equipment under NAVELEX cognizance in support of direct Fleet Activities and Combat Forces. Resources provide for direct salaries and administrative support for 632 civilian personnel (FY 1986) and administrative support costs only for 55 military personnel and 1162 civilian personnel who provide design and engineering, inspection and testing of electronic installations, major equipment repair and engineering/technical assistance for electronic systems and equipments.

Operational Support - Field

The Operational Support - Field Program provides the Navy, Marine Corps and Coast Guard with electronic systems for processing and transfer of information between all military users and for special military application including ship and shore electronic warfare detection and weapons control, development, acquisition, and logistics support of surveillance, space, intelligence, security, contracts command and control, communications, electronic warfare, air traffic control, and navigational systems for field activities. Additionally, the operational support-field program provides development and management of technical programs to ensure the security and integrity of Navy ADP systems, acts as the lead agency for the laser safety program and is the primary technical authority for electronic standards standardization techniques, practices and compatibility. Operational Support Field is responsible for ensuring timely, cost effective and efficient life cycle support for all NAVELEX electronic equipment systems, including the execution and coordination of those equipment systems in afloat platforms. Advance planning, architectural/functional designs, and engineering for systems comprising the Navy's Command Central Communications and Intelligence (C3I) Systems is also provided.

•	Personnel Summary FY 1984		FY 1985	FY 1986	
	A.	Military E/S	<u>86</u>	<u>140</u>	130
		Officer Enlisted	62 24	105 35	95 35
	В.	Civilian E/S	1,083	1,076	1,077
		USDH	1,083	1,076	1,077

Department of the Navy Operation and Maintenance, Navy

Activity Group: Logistics Support Services
Budget Activity: Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Standardization - Provides for the standardization of equipment, parts, material and related software, procedures and techniques in order to facilitate opportunities for interoperability and shared logistics support with friendly forces. These efforts are designed to increase fleet readiness and ensure adequate support of weapons systems through improved technical documentation, reduced dollar resources, manpower and skill requirements for their maintenance and operation.

Remote Sensors - Provides for engineering, technical support, installation and centralized management of the Intrusion Detection Systems (IDS) to allow security forces an early electronic warning of both the presence and approximate location of an intruder. The program also includes an on-going Special Ammunition Storage (SAS) site retrofit and an upgrade effort to ensure that installed IDS meet current security criteria. This includes installing new components such as tower maps, and replacing non-supportable equipment that is beyond economic repair. The Arms, Ammunition & Explosive (AA&E) sites that will receive the highest priority are those sites which contain Category I material (hand-held, portable, ready-to-fire rockets and launchers, etc.)

SSN Integrated Communications System (SSN-ICS) - Provides the attack submarine fleet with improved communication centers capable of responding to various mission requirements. The program supports the SSN 688 Class radio room by enhancing its capabilities through engineering changes and the addition of new improvements. This program provides repair and maintenance service for system hardware and software, engineering and technical services, configuration management and control, and technical support and management assistance for new equipments introduced into the Fleet. A high priority portion of the program is the Data Link Communications Systems (DLCS), a major subsystem of the Over-the-Horizon-Targeting (OTH-T)/TOMAHAWK capability, which will introduce to the SSN Class Submarine nine complex subsystems of electronic equipment. In addition, this program funds the Submarine Antenna function to ensure that current technical and operational documentation is available to support the submarine mission; that technically qualified personnel are stationed throughout the world to assist in inspection, investigation, maintenance, and fleet liaison for submarine antenna problems; that logistics and engineering services support are available; that support to the operation of an antenna range is provided; and provides inservice engineering agent support to the fleet. For support of the radio room and antenna systems, operations and maintenance funds are required to support approximately 4500 equipment items being procured, installed, or already installed on the attack submarine fleet.

Description of Operations Financed (cont'd)

Safety - Is divided between Electronic Systems Safety and Laser Safety. The Electronic Systems Safety program supports an engineering laboratory with safety test and system safety analysis capabilities to provide safety assistance to Electronic Systems Program and Acquisition offices. This program also updates safety requirements in Navy electronic standards, specifications and publications. The Laser Safety Program maintains laser safety design standards and test and evaluation capability to assist in producing safe laser systems for the Fleet. Laser protective devices are evaluated for protection against friendly and enemy lasers; laser radiation hazard surveys are conducted afloat and ashore; laser safety training assistance is provided for all Navy; and laser safety publications are developed and promulgated to all Navy.

Navy Occupational Safety and Health (NAVOSH) - Is aimed at eliminating workplace hazards and training employees in safe work practices, thereby reducing work time injuries and equipment damage, increasing productivity and enhancing fleet readiness. This is accomplished by providing safety and occupational health training of safety personnel, supervisors and employees; safety inspections; salaries for safety officers and safety clerical assistance; protective equipment for personnel; safety signs, alarms and equipment; and safety modifications to machinery and buildings.

Integrated Logistic Support (ILS) Systems - The ILS (TRI-TAC) program is primarily concerned with design and acquisition of Fleet tactical communications systems. This includes all trunking, access and switching equipment for mobile and transportable tactical multi-channel systems, associated systems control and technical control facilities, local distribution equipment, voice, record, data and ancillary terminal devices and associated communications security equipment. This program provides funds for Integrated Logistic Support (ILS), implementation planning, project acquisition management support, software support and planning for depot and intermediate maintenance facilities. In FY 1986, the TRI-TAC program will be transferred to Primary Communication Security (COMSEC). However, a new ILS (Fleet Tactical) program will be established to encompass funds transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for elimination of \$3K investment threshold and adoption of central management criteria as a governing factor.

Air Station Installation - The Air Station Installation program provides electronic equipment support to 122 Navy and Marine Corps air activities worldwide through the Naval Air Traffic Control (ATC) and Air Navigation Aids and Landing Systems (NAALS) programs. NAALS surveys are conducted to determine the operational readiness and condition of shore-based electronic systems as well as conditions and situations which directly affect the effective utilization of the equipment. The program finances the planning, installation design, installation and engineering support of Tactical Air Navigation Aid (TACAN), Tactical Communication, Air Traffic Control Systems, and Fleet Air Control and Surveillance Facilities (FACSFAC). PACSFAC provides control and scheduling services to aircraft, ships and submarines in offshore operating areas. Starting in FY 1985, funds are provided for installation of equipment in the Island Command Center (ICC) in Diego Garcia. Also included in this program is funding for support of fleet

I. Description of Operations Financed (cont'd)

requirements for Shipboard Air Traffic Control (SATC), Automatic Carrier Landing Systems (ACLS), Navigation Systems and MK XII AIMS Identification-Priend-or-Foe (IFF) Systems. SATC Centers provide identification of aircraft carrier radar systems that provide precise automatic control for final approach and landing. Navigation systems supported in this line are the OMEGA radio receivers (SRN-17, BRN-7, LTN-211 etc). Satellite-based radio navigational systems are used worldwide and are installed on nearly all surface ships and submarines. AIMS IFF is a DOD-directed tri-service program providing universal air traffic control radar beacon systems compatible with the National Airspace System, and is a secure identification system for military use.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout

			FY 1985)
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Standardization	2,009	3,172	2,019	1,954	4,032	2,078
Remote Sensors	3,131	3,217	3,011	2,813	6,820	4,007
SSN-ICS	1,797	3,970	2,883	2,911	6,356	3,445
Safety	607	669	630	629	529	-100
NAVOSH	294	324	296	301	290	-11
ILS	289	2.058	1,450	1.449	774	-675
Air Station Installation	18,129	26,786	22,725	22,645	27,475	4,830
Total O&M.N	26.256	40.196	33.014	32,702	46.276	13.574

C. Reconciliation of Increases and Decreases

1.	FY 1985 Current Estimate		\$32,702
2.	Pricing Adjustments		475
	A. Stock Fund 1) Non-Fuel B. Industrial Fund Rates C. Other Pricing Adjustments	(-115) -115 (-132) (722)	
3.	Functional Program Transfers		774
	A. Transfers In 1) Inter-Appropriation Integrated Logistic Support (ILS) Systems (Fleet Tactical) - Expense/Investment Criteria Revision - Amount transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as a governing factor.	(774) 774	
4.	Program Increases		19,096

A. Other Program Growth in FY 1986 (19,096)

Standardization - The increase is 2,126 to support the following growth:

82 additional Engineering Support Actions to support microcircuit obsolescence and the new Standard Hardware Acquisition and Reliability Program (SHARP)(48).

70 Qualification and Correlation Studies - Efforts will increase due to new standards program and in support of SHARP, and for second source qualification tests to support competitive procurement initiative (643).

C. Reconciliation of Increases and Decreases (cont'd)

136 Standards and Specifications (reviews, updates and new documents), including: (1) Increase in metrication effort in updating established conversion goals. (2) Increase in fiber optic (RF Cable) specifications to alleviate shipboard flammability and toxicity issues. (3) Updating reliability, maintainability and quality assurance specifications, handbooks, and standards to conform to new guidelines. (4) Increase in the number of specifications/standards developed to support the newly introduced SHARP (845).

148 Design Approved Request Actions - As a result of an increase in the use of the Standard Electronic Modules Program (SEM) (590).

Remote Sensors- Program increase

will fund:

(1) The installation of a specially configured Intrusion Detection System (IDS) consisting of readout display equipment, exterior and interior sensors and CCTV at the Special Ammunition Storage (SAS) Site at SWFLANT, Submarine Base, Kings Bay, GA. Installation of the first phase must start in FY 1986 to meet the required IOC date of FY 1988 (434). (2) The accelerated installation of IDS, consisting of readout display equipment and interior sensors at 12 Risk Category I & II (that which can be carried off and used) Arms, Ammunition and Explosive (AA&E) sites in accordance with continued concern for increased physical security of such critical assets (3,458).

4,052

C. Reconciliation of Increases and Decreases (cont'd)

(3) The SAS upgrade program providing the installation of two additional units of electrical equipment/tower maps for manned security guard towers. In addition to the tower equipment, this function provides the updating of electronic sensors to meet current security criteria and the replacement of equipment that has become uneconomical to repair (160).

SSN-ICS - Provides in-service engineering agent support to the fleet (928). Also, provides for new support requirements as follows: additional submarine antenna technical representatives to complete worldwide support organization (735); and reprovisioning support (383). Provides for growth in requirements being driven by an increase in both the numbers of equipments being managed and the number of new equipment systems being introduced to the operating fleet (1,420).

Air Station Installation - Program increase provides for: 1) Air Traffic Control Modernization -24 Air Traffic Control (ATC) communications (206); 3 Radar Air Traffic Control Facility Direct Altitude Indicator Readout (RATCF DAIR) installations (412); 11 Flight Data Input/Output (FDIO) installations (307); 4 wind/ clock/altimeter systems installations (234); 2 ATC Cable replacements (229); ATC Tower Improvement Installation (80); Radar Operational Facility (ROF) Assembly (263); and Brite Alpha Numeric Display System (BRANDS) Support (162);

3,466

9,452

C. Reconciliation of Increases and Decreases (cont'd)

2) Air Navigation Aids Installation - / Tactical Air Navigation (TACAN) installations (1,141); and 20 UHF Homer/ATIS installations (468); 3) Landing System Installation - Precision Approach Radar (PAR) ECPs (903); and 2 PAR Assemblies (386); 4) Fleet Area Control and Surveillance Facility (FACSFAC) - | Fleet Area Control and Surveillance Facility (FACSFAC) installation (2,158); 5) ATC Management System - 1 equipment condition survey (39); and Software Support for NAALS System (1,061); 6) MK XII AIMS Irr (Shipboard) - Development, Test & Evaluation MK XII AIMS System ECPs (60); and Certifications of MK XII AIMS IFF (5); 7) Navigation - 6 WRN-5/SRN-19 Software/Hardware Mods (37); 2 BRN-7/SRN-17 FC Development/ Testing (27); 20 LTN-211 Software/Hardware mods (194); SRN-19 Recertifications (8); and SESEF Test Program (6); and 8) Automatic Carrier Landing System (ACLS) - 3 SPN-46 BESEPS (49); 1 Automatic Carrier Landing System (ACLS) Certification/Verification (106); and 3 CATTC/AATC Configuration/Hardware/Software ECPs (911).

5. Program Decreases

A. Other Program Decreases in (-6,771)
FY 1986
Remote Sensors - Decrease will -97
result in a delay in the start
of 1 AA&E storage site
installation.

-6,771

C. Reconciliation of Increases and Decreases (cont'd)

Safety - Decrease will result in

1 less Electronic Safety
Document; 1 less Laser Safety
Workshop; 1 less Laser Safety
Publication; 1 less Laser Safety
fleet assist and 1 less tech
assist visit; 1 less Laser
Safety Survey; 1 less Laser
Safety Review Board Support
Review; and loss of portions of
a Laser protective device
evaluation and Laser equipment
safety evaluation.

NAVOSH - Decrease will result in correction of 38 less Safety deficiencies.

Integrated Logistic Support (TRI-TAC) Systems - Decrease is due to the termination of support for the Naval Telecommunication System Test Node and a reduction of technical support and depot activation planning for the TRI-TAC program Advanced Narrowband Digital Voice Terminal (ANDVT CV-3591); and realignment of the balance of \$816K to Communications Security (BA 3) when the ILS (TRI-TAC) program becomes a part of Primary Communications Security (COMSEC).

Air Station Installation Decrease will result in: 1) Air
Traffic Control Modernization 3 less Radar Air Traffic Control
Facility (RATCF) installations
(-1,573); 1 less Ground Control
Approach (GCA) replacement
(-411); 1 less Airport
Surveillance Radar (ASR)
replacement (-366); 6 less Radar
Microwave Links (-72);

-5,136

-7

-1,448

C. Reconciliation of Increases and Decreases (cont'd)

2) Air Navigation Aids Installation - VORTAC (-431); 3) Landing System Installation - 1 less Instrument Landing System (ILS) installation (-202); and Microwave Landing System (MLS) (-31); 4) Diego Garcia Island Command Center Installation -Diego Garcia ICC Installation (-54); 5) ATC Management System - 5 less Configuration Status Accountings (CSAs) for Air Stations (-108); ATC Computer Aided Design (-295); Air Station Master Plans Prep (-12); and ILS Plans/Operational Logistics Support Summary Prep (-8); 6) Other ATC Improvements - 16 less Other ATC Improvements (-1,229); 7) MK XII AIMS IFF (Shipboard) -1 less AS-3430 Integration ECPs (-43); 1 less UPA-59 Mod (-43); APX-100 Evaluation/Testing (-87); and 1 less UPX-25/28 Mod (-104); 8) <u>Navigation</u> - URN-25 Fleet Systems Mods (-34); and SRN-18/19 BRN-6 FC Test & Evaluation (-2); and 9) Automatic Carrier Landing System (ACLS) - 3 less USQ() Tests (-26); and ACLS Software/ Hardware Mods (-5).

6. FY 1986 President's Budget Request

46,276

III. Performance Criteria .

	FY 1984		FY 1985		FY 1986	
	#Units		#Units	_\$	#Units	
Standardization						
Engineering Support Actions	404	164	433	195	515	242
Standards and Specifications	389	572	334	782*	470	1,411
Qualifications/Correlations	250	680	283	586	353	1,411
Design Approval Requests	<u>274</u>	593	<u>175</u>	<u>391</u>	323	968
TOTAL	1,317	2,009	1,225	1,954	1,661	4,032

(*Increase in unit cost is due to increased complexity of specifications to incorporate VHSIC/VLSI, the latest micro-electronic technology.)

	FY	1984	FY 1985		FY 1986	
	#Units		#Units		#Units	
Remote Sensors Special Ammunition Storage	2	701	1	643	1	1,100
(SAS) sites SAS Upgrade Arms, Ammunition and Explosive (AA&E) Storage Sites	3	405	1	88	3 12	450 3,160
	FY	1984	FY 19	985	FY 1	986
	#Units	\$	#Units	\$	#Units	
Engineering Support/Integrated Logistics Support (ILS) Intrusion Detection Systems		2,025		2,082		2,110
(IDS) System Support	-		_			
TOTAL	5	3,131	2	2,813	16	6,820
			We	orkyears	•	
	FY	1984	FY 19	85		986
SSN-ICS (FY 85 avearage cost per W/Y = \$100K for all items except ISEA)						
Curriculum Development for		1.0	1	L.2		1.5
Training Support Field Maintenance Agency/Configuration Management (FY 85 Equip. Density = 808)		1.5	<u>.</u>	5.5	. (6.0
Repair and Maintenance Service for:		1.5	1	1.4	(0
Signal Distribution Systems (SDS); Frequency Standard Transfer Switch (FSTS)/Low Level Teletype Switch (SB-3917); Teletype Switch (OK-261); Sensor Interface Unit (SIU); and Data Terminal Set (DTS). (FY 85 Equip. Density = 848).						
CCSIP Operations Support Technical Support and Management Assistance (FY 85 Equip. Density = 848)		3.0 3.3	-	1.7 5.7		2.5 7.4

			Workyears					
			FY J	L984		985		986
Software Life Cycle Support (S: Antenna Technical Inspection Pr In-Service Engineering Agent (I Equip. Density = 3729 (FY 85	rogi Fy 8	5	1	l.0 l.6)		1.9 0 4.2		2.5 1.5 4.4
M/Y Cost = \$86.8K) Antenna Technical Representati	ves		7	7.0		8.0	1	5.0
FY 85 Equip. Density = 3729) Mod. Test Equipment Support			()		0 rkyears	•	4.3
			FY 3	L984	FY 1	985	FY 1	986
EMI Installation Support Com Spt (Video Tape; AN/WSC-3, AN/BRR-3; Electronic Drive; Spectrum Analyzer)			(0 0		3.5 4.0
TOTAL W/Y TOTAL FUNDING		4	19 31,797	9.9 7	\$2,91	9.6 1	6; \$6,3	2.6 56
			FY	1984	FY 1	985	FY 1	986
		#Ur	its		#Units		#Units	
Safety Number of Electronic Safety Documents			3	85	3	88	2	52
Produced or Revised Number of Evaluations			3	15	3	20	3	20
of Electronic Equipments Number of Laser Safety			5	100	5	92	4	92
Surveys Number of Laser Safety Workshops			2	30	3	39	2	35
Laser Safety Review Board System Reviews			3	30	5	45	4	45
Laser Protective Device Evaluations			2	100	2	92	1	70
Laser Safety Publications			3	100	3	94	2	67
Laser Equipment Safety Evaluations			3	107	4	124	3	120
Laser Safety Fleet Assist Visits			2	20	3	28	2	22
Laser Safety Working Groups Technical Assist Visits			8	<u>20</u>	<u>3</u>	<u>7</u>	<u>2</u>	<u>6</u>
TOTAL	7	296	34	607	34	629	25	529

	PY	FY 1984		FY 1985		FY 1986	
	#Units		#Units		#Units	_\$_	
NAVOSH							
Number of Safety and	8	157	8	150	8	150	
Health Inspections Number of Supervisor	. 9	50	7	46	7	52	
and Employee Safety Courses	•	30	,	40	,	32	
Number of Safety	. 6	18	7	21	7	22	
Officers Trained							
Number of Safety Deficiencies Corrected	100	<u>69</u>	128	84	<u>90</u>	<u>66</u>	
TOTAL	123	294	150	301	112	290	
	FY 19	84	FY 198	5	FY 198	6	
	#Units	<u>\$</u>	#Units	\$	Units	_\$_	
Integrated Logistic Support Systems TRI-TAC							
Equipment (NTSTN) (Nos. of equipment supported)	169	51	169	. 53			
Project/Acquisition Management Support (M/Y)	2.	5 238	2.5	301			
Depot Activation (No. of Sites)			1	1,080	•		
Software/Tech Maint Act/Fleet Maint Supt (M/Y)			1	15			
Fleet Tactical							
Material Purchases					56	774	
TOTAL		289		1,449		774	

III. Performance Criteria (cont'd)

•	<u>FY 1984</u>		FY 1985		FY 1986	
	#Units	\$	#Units		#Units	\$
Air Station Installation						
Air Traffic Control	27	9,343	89	8,630	119	7,777
Modernization						
Air Navigation Aids	35	2,207	7	735	35	2,282
Installation						
Landing System	0	0	78	1,400	82	2,523
Installation						
Fleet Area Control and	0	0	5	1,622	6	3,816
Surveillance Facility	_					
Diego Garcia Island Command	0	0	1	100	1	50
Center Installation						
ATC Management System	70	1,465	61	2,401	57	3,158
Other ATC Improvements,	75	3,200	81	3,601	65	2,509
Equipment ECPs, Mods, etc						
MK XII AIMS IFF (Shipboard)	610	190	629	1,461	626	1,303
Navigation	141	706	144	742	172	1,007
Automatic Carrier Landing System (ACLS)	<u>25</u>	1,018	<u>39</u>	1,953	<u>34</u>	3,050
TOTAL	983	18,129	1,134	22,645	1,197	27,475

IV. Personnel Summary (End Strength). None

Department of the Navy Operation and Maintenance, Navy

Activity Group: Engineering and Support Services
Budget Activity: Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems, Command)

I. Description of Operations Financed.

Technical Publications - Provides for adequate and accurate technical documentation for installation, training, operation, and maintenance of electronic systems for the Fleet and other users. The primary objective is to provide the best possible manuals with initial deliveries of every NAVELEX hardware item and to maintain adequate stocks in the supply system of the approximately 10,000 NAVELEX publications. The secondary objective is to correct any publications problems or deficiencies which may arise that reduce Fleet readiness.

Reliability and Maintainability ~ Provides technical surveillance of contracts to ensure that equipments are delivered without deficiencies. Selected systems, newly introduced into the Fleet, are evaluated to determine if design requirements are being met or to identify problems and develop corrective actions. Additionally, NAVELEX is the DOD designated preparing activity for yearly review and update of Military Standards for reliability testing, growth and thermal design. This program contains a requirement to maintain the integrity of Reliability Initiatives for NAVMAT and Workmanship Screening.

Electronic Test and Repair - This program provides: (1) requirement analysis of Navy test requirements to identify those parameters which need to be tested; (2) in-depth analysis of actual fleet and support activity requirements; (3) review of existing automatic test equipment test program sets and units under test documentation, their adequacy, and addresses the feasibility of enhancements if required; and (4) research in graphic forms and procedures to make the information more easily and rapidly comprehensible to the individual who needs to use it, tailored to his operational needs and educational and training level. DDEOC ships will have operating times extended from 36 months to approximately 60 months between overhauls. The change in maintenance strategy for the EOC ship classes is a shift from piece part repair to modular changeout. Changed out equipment and modules are shipped to expanded rework facilities for screening and refurbishment and subsequently returned to a pool for issue to support follow on availabilities of other SSEOC ship classes.

Tactical Electromagnetic Program (TEMP) - Ensures readiness by providing a valid operational Electromagnetic (EM) Environment and the capability to monitor and assess this environment. This is accomplished through the following efforts; (1) operation of two specially equipped NKC-135 aircraft to simulate hostile Electronic Countermeasures (ECM); (2) commencing FY 1986, operation of the Fleet Electronic Warfare Support Group (FEWSG) command, control, communications aircraft (FEWSG C3) which provides jamming services similar to the NKC-135 plus command, control, and communications for ORANGE FORCES during fleet training exercises; (3) operation, maintenance and overhaul of Fleet Electronic Warfare Support Group (FEWSG) simulators, vans

Description of Operations Financed (cont'd)

Tactical Electromagnetic Program (TEMP) (cont'd)

and ECM jammers; (4) provides technical advice and acquisition management support for the NATO Multi-Service Electronic Warfare Support Group (MEWSG); (5) provides repair and maintenance of fleet simulators and podded jammers used for training and tactical contingencies; (6) provides ECCM handbooks for specific ship classes based upon the ship's radar suite; and (7) maintenance of a master emitter data base at Electronic Intelligence (ELINT) Centers, generation of all electronic warfare libraries, and the coordination effort required with fleet intelligence centers.

Electromagnetic Compatibility/World Administrative Radio Conference (EMC/WARC) - Provides funding for: (1) Fleet EMC Support Program analysis and development of solutions for Fleet EMI (Interference) problems involving ELEX systems; (2) Acquisition E3 (Electromagnetic Environment Effects) technical review, analysis and recommendations in EMI control of ELEX systems acquisitions; (3) E³ Program support of CNO Executive Boards, Flag boards, and reports to OPNAV; Technical evaluation/review of reports and other support of E³ MAT EMI program; (4) WARC support involving technical evaluation of impact of special WARCs and development of technical alternatives for Navy requirements, plus VHF frequency realignment for regions of U.S. and possessions includes implementation support; (5) E³ Training Seminar to train acquisition, lab, and inspection personnel for better acquisitions --E³ Newsletter to increase EMI awareness and provide guidance to Navy personnel--updating the EMI NTP--development of training modules--development of self-help films/tapes; (6) Shore Support in conducting EMI/RADHAZ survey by various ELEX field activities (under NESEC Charleston direction), and implementation of new RADHAZ criteria.

Submarine Surveillance Equipment Program (SSEP) - Provides funding for the required life-cycle support of many varied electronic support measures and data collection equipments assigned for nuclear attack submarines. This funding provides nuclear attack submarines with the capability to detect, track, identify, and analyze the activities of foreign and threat military systems, and to provide direct tactical support to deployed submarines for quick reaction to threat situations.

Shipboard Cover and Deception (SCD) - A configuration of specialized equipments, subsystems, and systems are within this line item and are of two types. They are (a) Offboard Deception Devices (ODDS) - expendable air or surface deployable specialized buoys to support ocean surveillance and C³; and (b) Integrated Cover and Deception (ICAD) - which collectively provides Fleet Commanders with the capability to deceive and/or disrupt adversary operations. The nature of these systems requires a high degree of accuracy and operational readiness and are in four catagories: portable/modular carry-on/off relative to mission and deployment, installed at worldwide Navy shore activities, expendables, and permanently installed with designated shore support (e.g., hardware maintenance, software maintenance, repair, operational readiness testing, refurbishment between deployments, etc.). Therefore, extensive engineering/technical services, maintenance, repair, operational deployment testing, and refurbishment is required to maintain these equipments, devices, subsystems, and systems at specification level.

I. Descriptions of Operations Financed (cont'd)

Portable Electronic Warfare Support Measures (ESM) Equipment/Systems - The equipment, subsystems, and systems within this line item are of two types. They are (1) permanently installed at worldwide Navy ashore Sites and provide tactically significant technical cryptologic data support to installed/deployed cryptologic equipments/systems on Navy Combatants and Amphibious platforms and (2) portable systems centrally located at forward staging areas for deployment on Navy Combatants and Amphibious platforms, by direction of the Fleet CINC, on a mission-to-mission basis to provide tactical ESM support to the embarked Commander in a Quick Reaction Mode relative to mission area requirements.

Naval Information Processing System (NIPS) - This system includes intelligence equipment installed in the intelligence centers of the Aircraft Carriers (CV) the Amphibious Command Ships (LCC) the Amphibious Assault Ships (LHA) and four Navy shore commands. The purpose of NIPS is to process, analyze, display and disseminate intelligence data to the ship and the Battle Group to support Naval operations. The equipments comprising the NIPS are installed as 43 different suites of equipments made up of the AN/USQ-34(17); the AN/SSQ-64 (2); the AN/SYQ-9 (6); and the AN/SXQ-8 (18). Included with these systems is a National and Navy Intelligence Data Base and computer programs to operate the systems. The inventory of major equipments that comprise NIPS is very extensive, ranging from data processing equipment procured in the early 1970's to photographic equipment and a major close circuit television distribution system.

Surface Electronic Warfare (Excluding OUTBOARD)

(1) The equipment/systems within this line are radar and anti-ship missile (ASM) warning and defense systems (excluding the AN/SLQ-32) which provide the operational Commander with a real time passive capability to detect, locate, track and target surface and airborne radars and missiles, and to defend the task force by electronic means from electronic and/or IR guided ASM's. Systems within this catagory are (a) the AN/SLQ-17A(V)2 which provides both passive area surveillance and active electronic defense for CV/CVN against simultaneous multi-threat, multi-axis anti-ship missile attack. Funds are required for installation planning of LPA Signal Processors. Fleet Maintenance Agent software/hardware support and completion of Physical Configuration Audit (PCA) and ECP development and checkout; (b) the AN/WLR-1H, a passive radar surveillance receiver for CV/CVN which complements the AN/SLQ-17 in search and tract for threat radars and missiles. Increased funding will provide software/hardware support by Fleet Maintenance Agent (FMA) required to meet needs of Fleet installed AN/WLR-1H, configuration management and Engineering Change Proposal (ECP) development; (c) the Anti-Ship Missile Decoy (ASDM) system, which is a family of ASM decoys and launching equipment to counter the ASM threat. Configuration Audit of installed systems will be performed on all platforms. The following smaller equipments did not receive support but they will be supported in FY 1985/1986; (d) MUTE (AN/SSQ-82), a shipboard emitter monitor and control system; (e) the AN/SLQ-20, a classified ECM deception

I. Description of Operations Financed (cont'd)

Surface Electronic Warfare (Excluding OUTBOARD) (cont'd)

equipment, (f) the AN/SLA-10, a blanker group used to disable selected countermeasure receivers to prevent reception of transmitted signals, (g) AN/WLR-1 including Band 10 Tuners and the AN/ULQ-6 and variants. Funds are required to provide for in-service support and NAVELEX field activity and contractor engineering and technical services, installation and deinstallation planning and support aboard USN surface ships; logistics support; system alignment/calibration during inport periods; hardware and software configuration control and maintenance; fleet failure analysis hardware and software ECP implementation and documentation updates and maintenance.

(2) Surface Cryptologic Warfare (SCW) - This line item supports Tactical Cryptologic equipment/systems deployed on Navy combatants. These equipment/systems provide the operational commander with a real time passive capability to detect, locate, track, and target hostile units at long range (over the horizon). Items within this category are of three types. They are (a) OUTBOARD, which consists of a direction finding system, countermeasures receivers system, Special Intelligence communications systems including TACINTEL, Local Monitor Station (LMS), System Supervisor Station, signal processing system and countermeasures receiver system; (b) COMBAT DF, which is an Electronic Warfare Signals Acquisition and Direction Finding System (AN/SRS-1) with the capability to detect, locate, and identify hostile targets at long range, and to input this information into the ships Tactical Data System: and (c) CCSC/CCSS. These items, Cryptologic Combat Support Console and Cryptologic Combat Support System (CCSC/CCSS), are installed on CV/CVN and non-OUTBOARD/COMBAT DF platforms which require combat support information and a method of tasking cryptologic resources. These items are the counterpart to the System Supervisor Station and its counterpart in COMBAT DF and receives information from all Battle Group OUTBOARD and COMBAT DF configured ships.

Automatic Data Processing (ADP) Security - Provides the capability to assure that Navy ADP systems, which process, store or use classified or sensitive business data and produce sensitive output, will, with reasonable dependability, prevent deliberate or inadvertent access to sensitive material by unauthorized persons and unauthorized manipulation of the computer and its associated devices. ADP security inspection teams design generalized test and evaluation procedures, modify them to provide a site specification plan, and conduct the analysis and evaluation of each ADP system. Team personnel provide training and guidance to operational personnel; a risk assessment of operational systems and the information necessary to correct deficiencies; and assistance to operational personnel and systems developers in obtaining system accreditation.

Inspection Testing - Test and evaluation of electronic systems and materials is performed at independent government test agencies to include: qualification tests on manufacturer's samples to determine compliance with the specification requirements and to establish the item on a Qualified Products List; special testing of failed material or intelligence items to determine serviceability of items in the supply system; pre-award surveys; and verification of production line items versus specifications. It further involves the analysis of master test plans to determine that planned testing will be necessary and sufficient.

I. Description of Operations Financed (cont'd)

General Purpose Electronic Test Equipment (GPETE) Technical Operations - Provides the engineering and technical support necessary to resolve technical and management problems associated with test, measurement and diagnostic equipments. This effort will enhance the standardization of GPETE equipment; reduce inventory; prevent redundancy; establish efficient repair cycles; maximize utilization through proper distribution; reduce excess GPETE items; eliminate obsolete and uneconomical repair to items; and validate requirements for initial outfitting and for replacement items.

Test and Monitoring Systems (TAMS) - In executing the lead SYSCOM functions for TAMS, the following test and monitoring system effort is provided: (1) Establishing policies, procedures and techniques for the acquisition and application of automatic testing. (2) Conducting weapon system acquisition reviews to assure proper application testing and METCAL screen acquisitions of Automatic Test Equipment (ATE), revising the ATE acquisition guide for project offices and providing consulting services to various acquisition and project offices and their contractors. In addition, the TAMS program represents Naval Material Command on the Joint Logistics Commanders Panel on Automatic Testing, which is a Joint Services Panel, and the NSIA Automatic Testing Committee. (3) Represents Naval Material Command on the JLC Joint Technical Coordinating Group for Metrology and Calibration (JTCG/METCAL), and provides direction to the Calibration Coordinating Group (CCG) and NBS engineering and technical projects. (4) Advanced Testing Technology (ATT) includes planning, monitoring and coordinating the Navy's advanced testing technology programs. (5) Training and education includes developing and conducting a number of automatic testing and related educational programs.

Maintenance Engineering - This program has major responsibilities for a portion of the Detection, Action and Response Technique (DART) Program which is a coordinated priority effort within the Naval Material Command for identification and expeditious correction of the most serious shipboard equipment problems affecting fleet material readiness. This program also finances the implementation and management of the following efforts: (1) ashore electronic Planned Maintenance System (PMS) program and the Nomenclature Assignment Effort; (2) maintenance concepts to include level of repair, supply support, provisioning guidance, allowance list development, production liaison for major equipments and systems, and development of corrections for equipment deficiencies; (3) repair management of electronic material and quality control of the repaired product; (4) depot maintenance interservice support agreements; and (5) intensive in-service engineering support.

Other Engineering Services - Provides specialized engineering/technical support to enhance the operational readiness of fleet and shore based systems and equipments by providing improved realiability. This effort corrects system and equipment deficiencies including technical documentation; improves configuration and management control; extends both the useful military life and mean time between failures within the equipment's current performance envelope, develops and implements systems level tests, maintenance procedures and maintains Total Ship Test Program equipment; and provides pre-and

I. Description of Operations Financed (cont'd)

Other Engineering Services (cont'd)

post-installation system testing for new construction and active fleet ships. The Navy has requirements to provide major technological upgrades to its aging shipboard EXCOMM systems in the next decade; and to improve its EXCOMM systems support to the Fleet.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1985		FY 1986	
		Budget	Appro-	Current	Budget	
	FY 1984	Request	priation	Estimate	Request	Change
Technical Publications	2,054	2,349	2,169	2,128	2,589	461
Reliability & Maintain	615	643	595	573	1,056	483
Electronic Test & Repair	236	6,581	6,235	4,125	4,630	505
TEMP	13,939	19,471	17,048	14,169	16,912	2,743
EMC (WARC)	4,225	3,979	4,311	3,475	6,433	2,958
SSEP	7,984	9,579	9,189	9,161	11,802	2,641
Cover & Deception	1,746	3,238	3,043	2,782	2,551	-231
Portable ESM	1,718	4,086	3,713	3,528	2,814	-714
NIPS	2,680	3,098	3,016	2,820	2,825	5
Electronic Warfare	5,548	10,451	9,397	9,038	12,170	3,132
ADP Security	1,189	1,427	1,356	1,274	1,358	84
Inspection Testing	530	809	727	650	628	-22
GPETE Tech Operations	605	2,003	1,791	1,390	1,748	358
TAMS	1,105	2,485	2,328	1,909	1,926	17
Maintenance Engineering	8,353	11,429	11,081	10,148	11,556	1,408
Other Engr Services	2,286	3,710	3,422	3,064	3,448	384
Total, O&M,N	54,813	85,338	79,421	70,234	84,446	14,212

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate		70,234
2.	Pricing Adjustments		722
A.	Stock Fund	(-533)	
	1. Fuel	-316	
	2. Non-Fuel	-217	
В.	Industrial Fund Rates	- 73	
c.	Other Pricing Adjustments	1,328	
3.	Program Increases		16,486

A. Other Program Growth in FY 1986 (16,486)

Technical Publications
This increase in program value is to support processing 210 Engineering Data packages. These packages are used to support competitive reprocurement of future repair part requirements (302). The increase also supports the automation, digitalization of engineering drawings (87). This will reduce the present, costly, manual effort and enable drawings to be updated by work-processing equipment instead of cutting and pasting paper copies. Additionally, increases in desk

Reliability and Maintainability Growth will permit the monitoring of contractor performance by the Regional Support Program at NESEC, San Diego, CA and NWSC, Crane, IN. An increase from zero to 12 hardware contracts will be monitored to ensure that reliability and maintainability requiements are adequately addressed during design to minimize the risk during development and production that the availability will not be met. The Fleet Reliability Assessment Program will be reinstated at NWSC Crane, IN to evaluate new equipments, detect latent defect early in production and assure that Operational Availability (AO) is being met.

top manuscript reviews (95).

458

484

B. Reconciliation of Increses and Decreases (cont'd)

Reliability and Maintainability (cont'd) Workmanship screening which includes temperature cycling and random vibration of repaired electronic modules from the restoration depot at NESEC Portsmouth, will be reinstated at NESEA, St. Inigoes, MD. The purpose of workmanship screening is to minimize workmanship errors in production and restoration of electronic modules. Workmanship screening will preclude the shipment of repaired modules to the Fleet that have workmanship defects. It is currently estimated that 20% of the repaired modules have workmanship errors. Approximately 1200 modules will be screened during FY 1986 with an ultimate screening of 8700 modules per year.

Electronic Test and Repair
The increase in funds for FY 1986 will
enable translation and/or programming of
Test Program Sets (TPS) for the following
NAVELEX COMBAT Systems AN/SLQ-32, AN/SLQ17A(V)2, ON-143 (V-4, 6, 7), AN/SRN-19,
and AN/URN-25. A total of 250 TPSs can be
created and required copies of each
distributed to the Fleet by the end of
FY 1986. TPS average cost is \$15,000.

FEWSG C³ Aircraft - This aircraft is similar to the NKC-135 jamming aircraft with increased command control and communication capabilities, and enters service in FY 1986 following procurement in FY 1984. The aircraft will be fully contractor operated and maintained since the Air Force cannot maintain this DC-8 type aircraft. The increase of (1,919) will allow this aircraft to fly 100 hours (not in service for a full year) (200) and partially fund the operations and maintenance contractor (1,719).

FEWSG Repair/Maintenace - The increase of (552) will provide for maintenance/ repair of the expanded inventory of jammers and simulators.

3,880

459

B. Reconciliation of Increases and Decreases

TEMP (cont'd)

MEWSG - Increase of (23) will provide increase in engineering/technical support for the NATO Maritime Electronic Warfare Support Group Program.

Fleet Simulators/Pods - Increase will provide for maintenance/repair of additional assets for fleet support and tactical contingency (451).

Advanced ECCM - Provides ECCM operator handbooks by class for surface ships. 10 class specific handbooks are programmed for FY 1986 (170).

EW Library - Increase provides for preplanned additional levels of support for fleet units and deployed equipments from the ELINT centers and NSGA Naples. This addition provides for the phased transition from manpower intensive library generation and data manipulation methods to a more capable library generation through a data base management system (765).

EMC/WARC

2,873

The increase will provide E³ control for 75 additional acquisitions, implementations of plans for complying with new RADHAZ criteria which affects 600 stations, conduct EMI/RADHAZ surveys and corrective action at an additional 50 shore stations. Other areas of increased emphasis will be EMI Training of additional naval personnel at headquarters, field activities, laboratories and centers and enhanced planning and appraisal of the overall program at the NAVMAT level.

Submarine Surveillance Equipment Program (SSEP) The Submarine Surveillance Equipment Program (SSEP) provides funding for the required life-cycle support of many varied electronic support measures (ESM) and data collection equipments assigned to nuclear attack submarines. This funding provides nuclear attack

2,531

B. Reconciliation of Increases and Decreases

SSEP (cont'd)

submarines with the capability to detect, track, identify, and analyze the activities of foreign and threat military systems and to provide direct tactical support to deployed submarines for quick reaction to threat situations (899).

The growth in the SSEP Pooled Equipment line for FY 1986 is for support of the SSEP Support Facilities located in Groton, CT and Pearl Harbor, HI. These facilities directly support submarines deploying on special operations by grooming and certification of ESM, Sonar, and certain optical equipment. (1,632)

ELECTRONIC WARFARE (Excluding Outboard)
(Surface Electronic Warfare)
AN/SLQ-17A(V)2- Increased funding is
needed for Fleet Maintenance Agent
software/hardware support, completion
of Physical Configuration Audit (PCA) and
Engineering Change Proposal development
and checkout, and planning for installation
of LPA Signal Processor Modification Kits
(1,737).

AN/WLR-1H - Increase will provide software/hardware support by SSA/
FMA required to meet needs of Fleet installed AN/WLR-1H, configuration management and ECP development (165). (Surface Cryptologic Warfare-including Outboard) Increase provides for 7.5 manyears of maintenance support for OUTBOARD (Phase II) (267). 13 manyears of COMBAT DF IMA/FMA in-house support at NESSEC Char. S.C. (456), and 4 manyears of increased CCSC/SSCC IMA/FMA in-house support at NESEC San Diego, CA. (188).

DECOYS - FY 1986 will commence installation of additional launchers and associated components and an automated Decoy Control System. Each existing system is being increased by 2 launches. Also, the 4 additional systems shown in FY 1986 will

3,051

Reconciliation of Increases and Decreases

be installed on the CV/CVN's. This is a new configuration which requires 8 launchers per system launchers per system (238).

ADP Security

108

Increase will support one additional manyear of effort in support of the Navy Computer Security program. Increase will fund computer security technical support in software engineering, hardware maintenance, identification of new computer security tools and techniques applicable to NAVELEX C3I projects, the evaluation of specific Navy computer systems security posture, the development of new improved methods of testing computer systems reliability, and increased Security Tests and Evaluations and technical assistance.

GPETE Technical Operations

351

Provide an additional 18 test equipment allowances for the fleet, revise 27 test equipment specifications, determine 12 test equipment suitability evaluations and review 18 test equipment measurement capabilities.

Maintenance Engineering

1,877

The unit cost increase in FY 1986 for the AN/SPN-42 is the result of performing more complex and extensive tests on field changes. Specifically, the Dual Band Antenna (50), Antenna Drive Motor (25), UPM-119 test set (40), Moving Target Detection (70). The unit cost increase in FY 1986 for the AN/SPN-43 is the result of fabrication and installation of the Moving Target Detection (MTD) field change (866), and installation and test of a radome to prevent halyard entanglement (451). Also, more extensive testing of the Pedestal (110), Transmitter (65), Receiver (95), Power Supply (70) and Azimuth Drive (35).

B. Reconciliation of Increases and Decreases

Other Engineering Services

Review of Basic Alteration Configuration
Reviewed Drawings (BACDs) completed by NAVSEA,
coordination and oversight of shipalt design
providing technical information, material
management and test certification during the
shipalt process for NAVELEX systems and equipments
will increase by 3 manyears in order
to respond to increased requirements
(61). Engineering evaluations to resolve
and implement correction of electromagnetic
performance deficiencies attributable
to topside located systems will increase
by 44%. (94)

RADHAZ surveys, which involve investigations of radiation hazards at Navy shore activities, and are required to ensure the safety of Navy personnel and civilians located in close proximity to Navy transmitter installations, will increase by 22. Approximately 600 Navy shore facilities worldwide require survey for review, evaluation and recommendations (61).

TSTP acceptance testing, which involves the development of test procedures for Exterior Communication (EXCOMM) equipment by hull for overhaul and by hull or ship class for PMS by service personnel during operation will increase by 9. (63)

Increase will fund sample and quality assurance testing and initial calibration prior to operational deployment of 5 additional Exterior Communication (EXCOMM) Total Ship Test Program (TSTP) test suites delivered from the vendor. (58)

Advance Base Functional Component (ABFC) reviews will increase by 5. These reviews include documentation of ABFCs assigned to NAVELEX and consist of evaluating the design and composition of ABFCs to ensure that mission statements reflect the requirements of the

B. Reconciliation of Increases and Decreases

Other Engineering Services (cont'd)

Fleet CINCs; reviewing listed equipment to ensure that it is the most technically advanced available; maintaining liaision with other Commands to ensure that their contributions are the best available for the purpose of then recommending to CNO the inclusion of new components, the deletion of old components and the revision of mission statements of existing components. (20)

Additional funds will provide for followon calibration of 34 TSTP equipment suites of which 4 will also include repair of the equipment. These items are currently backlogged in repair/calibration cycle. (9)

FY 1986 funding will provide additional computer time and a 33% increase in data retrievals, RACC inquiries and updates, MILSTRIPS processed, compilation and review of asset availability data, and technical documentation assessment of 2Z cog requirements for management of NAVELEX cog material within the scope of the Uniform Inventory Control Point (UICP) Requirements Accumulator (RACC) on-line data system. (48)

4. Program Decreases

-2,996

A. Other Program Decreases in FY 1986 (-2,996)

TEMP

-1,210

Program decrease will impact support of the NKC 135 by reducing Planned Depot Maintenance (PDM) scheduled (-550), reducing fuel usage (-293), reduce Aircraft Material (-59), and reduced contractor engineering and technical support. (-308).

B. Reconciliation of Increases and Decreases (cont'd)

Shipboard Cover and Deception
Decrease provides for refurbishment
of 2 fewer AN/SLQ-34(VI)'s (-146) and
refurbishment of 2 less AN/SLQ-34
(V2)'s (-158).

Portable Electronic Warfare

Support Measures (PESM) - Decrease
provide for installation of MultiUser Special Intelligence Communications
Systems at 3 Navy shore activities (211),
4 fewer AN/SSQ-80(V1/2) carry-on
shipboard installations (38),
refurbishment of 2 AN/SSQ-80(V1/2)
(-375), initiation of Intermediate
Maintenance Activity (IMA) support for
the AN/SSQ-80(V4) (58), and less
of IMA support for the Tactical
Augment to Command and Control Systems
(87).

NIPS- Decrease the Fleet Imagery Support Terminal (FIST) being delivered to fleet units in FY 1986.

TAMS - Decrease of one work year (W/Y) in managing the Navy Automatic Testing Program and two work years (W/Y) in operating the Testing Technology Office and Information Center. These funds support NAVELEX's responsibilities as Lead SYSCOM for TAMS.

Maintenance Engineering
The decrease will cause a reduction in
Fleet Secure Voice Systems engineering
actions by 5; decrease revisions of
Allowance Parts List (APL) by 6 and
decrease new APLs generated by 62.
Decrease 2 in tech review/validation
of acquisition packages; decrease of
20 in reprocurement data packages
reviewed/certified and decrease of 2
in acquisition method codes recommended
will occur in BOSS.

Inspection Testing
Reduction will reduce number of
qualification test.

-31

-304

-769

-27

-65

-485

B. Reconciliation of Increases and Decreases (cont'd)

Other Engineering Services -105
Decrease support of integrated shipboard
test program and development of system
level testing for overall EXCOMM Operations.
There will be fewer reviewers of engineering
documentation for communication systems
configuration.

5. FY 1986 President's Budget Request

84,446

ctivity Group: Engineering and Support Serv	ices (cont'	<u>d)</u>	
II. Performance Criteria.			
•	FY 1984	FY 1985	FY 1986
MAINTENANCE OF TECHNICAL PUBLICATIONS	\$/Units	\$/Units	\$/Units
Quality Assurance			
In Process Reviews	20	22	20
Verifications	12	17	14
Manuscript (desk-top) Reviews	174	102	295
Updates			
Manuscripts updated	39	48	38
User Comment Sheets Processed	350	375	390
Printing and Replenishment			
Manuscript reprint actions	528	388	395
Engineering Data Maintenance			
· Technical data package			210
TOTAL FUNDING	\$2,054/	\$2,128/	\$2,589/
	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
RELIABILITY & MAINTAINABILITY			
Hardware Contracts monitored	0	0	12
Contract Data			
Requirements List			
deliverables evaluated	300	285	223
Equipment Supported by Fleet			
Reliability			
Assessment Program	0	0	3
Workmanship Screening Modules	0	0	1,200
Reliability Initiatives Workyears	3.0		3.0
Military Initiatives Update Workyears	0	0_	2.0
TOTAL FUNDING	\$615/	\$573/	\$1,056/
	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
ELECTRONIC TEST AND REPAIR (ATE)			
Test Program Sets (TPS) developed	27	17	17
Requirements Analysis/Standardization	1	4	4
Translate TPS	0	17	17
Duplicate TPS	0	39	39
DDEOC	0	100	190
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Restoration of Equipment Change-out Technical Repair Standards (TRSs) developed Validate and Install TPS/TRSs

	FY 1984	FY 1985	FY 1986
ELECTRONIC TEST & REPAIR (cont'd)	\$/Units	\$/Units	\$/Units
System Maintenance Analyses (SMA)			
Reviews	0	780	780
Class Maintenance Plan (CMP) Reviews	0	780	780
Allowance Part List (APL) Rewrites	Ŏ	7	7
Weapon System File (WSF) Retrievals	ŏ	, 57	57
Reprocurement Data Packages	ő	12	12
Fleet Support Planned Maintenance System	•		
(PMS) packages	0	9	9
Provisioning Data Packages	0	30	30
TOTAL FUNDING	\$236/	\$4,125/	\$4,630/
		_	
	FY 1984	FY 1985	FY 1986
TEMP			
NKC-135			
Flight hours (Programmed)	1,000	1,070	1,070
Fixed Costs (\$000)	F 0/F	c 700	
Contract Operation & Maint Engine Overhauls	5,945 404	6,798 404	6,490
Planned Depot Maint	404	404 550	404 0
Operating Costs (\$000)	U	220	U
*Fuel	2,343	2,293	2,000
AF Material Support	515	559	500
Total Cost (\$000)	(9,207)	(10,604)	(9,394)
**************************************	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(10,001)	(7,074)
FEWSG C ³ Aircraft	0	0	100
Flight Hours			
Fixed Costs (\$000)			
**Contract Op & Maint	0	0	1,719
Operating Costs (\$000)			
*Fuel	0	0	200
Total Cost (\$000)	0	0	(1,919)
PMDA CC			
EMPASS	400	^	•
Flight Hours Operating costs (\$000)	423 318	0	0
Fixed costs (\$000)	817	0	I
Total Cost (\$000)	$(\frac{317}{1,135})$	-0	
10001 (\$000)	(1,133)	·	· ·
FEWSG Repair & Maintenance			
Simulation vans (Units)	8	8	8
Electronic countermeasure	_	_	
jammers (Units)	27	92	118
Simulator Pods (ALQ-167/AST-4)	14	14	14
Instrumented simulators (Units)	6	15	31
Chaff Dispensers (Units)	29	29	31
DLQ-3 (Units)	8	16	16
Total Cost (\$000)	(1,526)	(1,409)	(1,931)

	FY 1984	FY 1985	FY 1986
MEWSG			
Eng/Tech Services (\$000)	100	120	143
Fleet Simulators/Pods			
Repair and Maintenance			
ALQ-167 (Units)	43	51	62
AST-4 (Units	17	22	25
Total Cost (\$000)	(996)	(949)	(1,400)
Advanced EECM			
ECCM Manuals	0	0	10
Total Cost (\$000)	0	0	(170)
EW Library (\$000)			
Pacific Support (Personnel support)	310	100	175
Atlantic Support (Personnel support)	310	104	175
Mediterranean Support (Personnel support	:) 75	60	175
Data Base (System Support)	77	366	580
Software Support (System support)	203	457	850
Total Cost (\$000)	(975)	(1,087)	(1,955)
TOTAL TEMP FUNDING	(\$13,939)	(\$14,169)	(\$16,912)

- * NKC-135 Aircraft consume 2,200 gal/hr based upon FY 1984 data FEWSG C³ aircraft estimate consume 2,380 gal/hr due to additional drag on airframe.
- ** Contractor maintenance for partial year. Cost include aircraft material support not available in USAF supply.

	FY 1984 \$/Units	FY 1985 \$/Units	FY 1986 \$/Units
EMC/WARC	\$/Units	\$/Units	\$/ Units
Fleet EMC Support Program:		1,287 (86 probs)	2,189 (146 probs)
Acquisition E ³		460 (75 acqs)	782 (150 acqs)
E ³ Program Support		200 (2 CEB)	
Technical Evaluation Review	378 (23M prog)		606 (52M prog)

III. Performance Criteria (cont'd)

	FY 1984 \$/Units	FY 1985 \$/Units	FY 1986 \$/Units
On site assessment of MAT EMI program	39 · (4 Engs)	32 (6 Engs)	60 (15 Engs)
WARC Support	255 (2spec WARC)(2	180 spec WARC)(200 2spec WARC)
VHF Frequency Realignment	125 (1 area)	125) (1 area)	357 (2 area)
E ³ Training Seminars/self-help films	358 (36 Sessions	297 (30) Sessions)	761 (38 Sessions/ 3 FILMS)
E ³ Newsletter	39 (4 issues)	30 (3 1ssues)	48 (4 issues)
Update EMI NTP	35K 100 (1 modu)	50K Le)	50K
Shore Support	658 (68	457 (49	1,180 (120
(# of surveys)	<u>surveys</u>)	surveys)	surveys)
TOTAL FUNDING	\$4,225	\$3,475	\$6,433
	FY 1984 QTY/\$	FY 1985 QTY/\$	FY 1986 QTY/\$
SSEP Digital Receiver (AN/BRD-7)	114/0	114/0	114/0
FMA Support (Hardware)	114/175	114/200	114/200
Maintenance Software Support	10/60	0/0	0/0
Management Support	114/40	114/50	114/50
Sub-surface Tactical ESM (WLR-8)	39/0	40/0	41/0
FMA Support (Hardware)	39/250	40/300	41/325
LCM Hardware Maintenance	39/50	40/50	41/75
Management Support	39/95	40/100	41/100
Navy Early Supply Support	39/5	40/5	41/5

(Sub-surface tactical ESM (WLR-8 - The inventory increase specified for the AN/WLR-8(V)2 system is the result of normal procurement of these systems for installation aboard the SSN-688 Class nuclear attack submarines.)

III. Performance Criteria (cont'd)

	FY 1984	FY 1985	FY 1986
	QTY/\$	QTY/\$	QTY/\$
SSEP (cont'd)			
Interferometer DF (BLD-1)	2/0	2/0	5/0
FMA Support (Hardware)	2/100	2/150	5/300
FMA Technical Support	2/100	2/100	5/100
Maintenance (Hardware)	2/50	2/50	0/0
Management Support	2/50	2/50	5/50
Navy Early Support	2/5	2/5	5/5

(Interferometer DG (DF (BLD-1) - The inventory increase specific for the AN/BLD-1 system is the result of normal procurement of these systems for installation aboard the SSN-688 Class nuclear attack submarines.)

Sub-surface ESM Receiver (WLR-6)	16/0	10/0	6/0
FMA Support (Hardware)	16/630	10/500	6/300
Management Support	16/95	10/90	6/90
Navy Early Support	16/5	10/5	0/0

(Sub-surface ESM Receiver (WLR-6) - The decrease in system inventory is due to the replacement of old AN/WLR-6 systems aboard the SSN-637 Class nuclear submarines by the newer and more capable AN/WLQ-4(V) ESM system.)

Sub-surface ESM Receiver (SNAPPER)	15/0	15/0	15/0
FMA Support (Hardware)	15/540	15/600	15/600
EHF/IFM Hardware Support	15/150	15/150	15/150

(Sub-surface ESM Receiver (WLR-6 SNAPPER). Same rationale as for the AN/WLR-6 system.)

Band-10 Tuner	38/0	38/0	38/0
FMA Support (Hardware)	38/50	38/50	38/50
Surveillance Receiver	0/0	0/0	0/0
(SSN-594 Upgrade (WLR-1H)	4/0	9/0	9/0
FMA Support (Hardware)	4/150	9/250	9/250
Navy Early Supply Support	4/5	9/5	9/5

(Surveillance Receiver (SSN-594 Upgrade) (WLR-1H) - The system inventory increase reflects the second of three procurements of these systems for installtion aboard the older SSN-594 Class nuclear submarines.)

III. Performance Criteria (cont'd)

	FY 1984	FY 1985	FY 1986
	QTY/\$	QTY/\$	QTY/\$
SSEP (cont'd)			
Digital Surveillance Receiver (WLQ-4)	28/0	34/0	40/0
FMA Support (Hardware)	28/1941	34/2300	40/3820
Software Maintenance	28/1317	43/1458	40/2654
Support	28/182	34/300	40/325
Navy Early Supply Support	28/8	34/8	40/8
Radar Cross Section Reduction	480/0	4 9 0/0	500/0
FMA Support (Hardware)	480/300	490/390	500/400
Headwindown Cleaner/Applicator	5/0	10/0	10/0
FMA Support (Hardware)	5/50	10/100	10/100
Emitter Classification Units	20/0	20/0	20/0
FMA Support (Hardware)	20/15	20/15	20/15

(Digital Surveillance System (WLQ-4) - The system inventory increases in each of FY 1985 and FY 1986 reflect the delivery of the final group of systems procured for installation aboard the SSN-637 Class nuclear submarines.)

SSEP Pooled Equipment	149/0	152/0	375/0
Facilities Management and Support	149/500	152/550	375/100
Maintenance (Hardware)	149/300	152/300	375/575

(SSEP Pooled Equipment - This reflects the normal increase of special purpose test equipment procured under program subhead 52LS for use by the Submarine Surveillance Equipment Program Support Facilities in direct support of high priority special missions of national significance.)

Sub-surface ESM Receivers (WLR-1G) FMA Support (Hardware)	67/0 67/150	64/0 64/150	64/0 64/150
Electromagnetic Readiness Tester (EMSORT Vans)	3/0	4/0	5/0
FMA Support (Hardware)	3/180	4/200	5/200

(Electromagnetic Readiness Tester (EMSORT) - The system increase represents the delivery of systems procured to assist the SSEP Support Facilities in their mission of supporting the deployment of SSN submarine on special operations.)

Activity Group: Engineering And Support Services (cont'd)

III. Performance Criteria (cont'd)

SSEP (cont'd)

 Aural Analysis Booths
 0/0
 4/0
 4/0

 Refurbishment (Hardware)
 2/56
 4/130
 4/200

(Aural Analysis Reproduce Stations - This procurement represents upgrading a vitally needed resource at each of the two SSEP Support Facilities in support of the ACINT collection of data by submarines on special operations. This facility currently does not have the capability to screen and analyze data coming from the AN/BQH-5(V)4 Data Gathering Sets.)

Radio Detection finder (BRD-8) FMA Support (Hardware)	FY 1985 QTY/\$ 5/0 5/170	FY 1986 QTY/\$ 14/0 14/300	FY 1986 QTY/\$ 14/0 14/300
BLA-4 Antenna Systems	46/0	46/0	46/0
FMA Support	46/150	46/175	46/200
Test Facility Operation	46/60	46/75	46/100
SSEP TOTAL FUNDING	\$ 7,984	\$9,161	\$11,802
	FY 1984 Quantity	FY 1985 of Items	FY 1986 Supported
SHIPBOARD COVER AND DECEPTION			
1) Title/Nomenclature	_	_	_
a) AN/SLQ-34(V1)	6	6	6
b) AN/SLQ-34(V2)	35	37	37
c) AN/SLR-22	30	30	30
d) AN/SLQ-33	2	5	7
e) C&D Scenario Generator	3	5	5
f) AN/SSQ-74 Vans	6	6	6
g) PTD ODDS	0	0	6
h) AN/SKR-7	_	10	19
1) AN/SLQ-20	15	15	15
j) HF Communications Simulator	0	0	50
k) Radar Jammer II1) E/F Band Simulator	0	0	65 50
II EIF KANG SIMILIATOT			7()

Activity Group: Engineering And Support Services (cont'd)

III. Performance Criteria (cont'd)

SHIPBOARD COVER AND DECEPTION (cont'd)

		FY 1984	FY 1985	FY 1986
		Quantity	of Items	Supported
2) E1	ements of Expense			
a)	Maintenance			
	1) Hardware	572	762	621
*	2) Software	554	957	630
** b)	Refurbishment	620	883	910
c)	IMA/FMA	0	180	210
***d)	Installation/Deinstallation			180
T	otal	\$1,746	\$2,782	\$2,551

^{* =} Includes all within envelope changes to keep pace with threat environment.

** = Dynamic relative to usage.

^{*** =} Includes all portable/carry-on installations/deinstallations and permanent shore site installations.

POR	TABL	E ESM			
1)	Tit	le/Nomenclature			
	a)	Carry-on SI Communications	12	16	56
	b)	Teletype Replacement	18	70	70
			100/	4005	
			FY 1984	FY 1985	FY 1986
			_		Supported
	c)	MUSIC	0	3	6
	d)	AN/SSQ-80(V1)	34	37	37
	e)	AN/SSQ-80(V2)	34	37	37
	f)	AN/SSQ-80(V4)	0	0	1
	g)	SSES Ancillaries	42	54	66
	h)	TACC Systems	0	0	5
	1)	HF Receivers	0	0	24
	j)	VANS			
	_	1) Quick	12	12	12
		2) OICS	4	4	4
		3) PESM	4	5	7
	k)	FES Systems	0	0	17
	1)	Field Training Systems	4	6	11
	m)	MSTDF	2	4	6
	n)	Cryptologic Items Under 900K	14	26	39
	-		_ -		

Activity Group: Engineering And Support Services (cont'd).

III. Performance Criteria (cont'd)

PORTABI	E ESM (cont'd)			
2) Ele	ements of Expense (\$000)			
a)	Maintenance			
	1) Hardware	108	762	762
	2) Software	270	599	599
b)	Refurbishment	118	271	298
c)	IMA/FMA	974	724	219
***d)	Installation/Deinstallation	248	1,172	936
	TOTAL PORTALBE ESM	\$1,718	\$3,528	\$2.814

- * = Includes all within envelop changes to keep pace with threat environment.
- ** = Dynamic relative to usage.
- *** = Includes all portable/carry-on installations/deinstallations and permanent shore site installations.

	FY 1984	FY 1985	FY 1986
	Number of	Equipments	Supported
NIPS			
OA-4547A/USQ-34 Plotter	2	2	2
AS-27A Analysis System	18	18	20
TD-1194 Display System	39	39	40
IP-1243 Keyboard Terminal	117	119	121
TT-624 Teleprinter	84	95	98
RD-358 Tape Units	25	28	29
MU-602 Extended Memory	20	20	20
AN/USH-26 Cartridge Mangetic Tape Unit	19	19	19
AN/UYH-2 Disk Memory Set	44	50	51
AN/UYK-20 Computer	40	43	44
CP-642B Computer	38	38	38
AR-155A Reader/Printer	33	33	33
AN/UYK-48 Analytic System	21	22	24
AN/UYK-7 Computer	4	7	8
SB-3495 Switch	4	7	8
OA-7984 Punch Paper Tape Unit	26	28	28
SA-1722/UYK Switch	4	7	8
AN/UYQ-23 Display Console			

Activity Group: Engineering and Support Services (cont'd)

III. Performance Criteria (cont'd)

NIPS (cont'd)

The state of the s	FY 1984 Numbers of	FY 1985 Equipments	FY 1986 Supported
AN/UYK-43 Computer	0	0	1
RD-397 Printer/Punch -	0	1	2
SA-1816/UYK Switch	4	9	10
PT-533 Graphic Plotter	2	2	2
RD-294 Mangetic Tape Unit	19	19	19
RO-280 Line Printer	22	22	22
AN/SXQ-8 CCTV	22	22	22
EH-38 Film Processor	54	54	54
EN-52 Printer	14	14	14
EN-90 Contact Printer	14	14	14
EN-109 Printer	14	14	14
Fleet Imaging Support Terminal (FIST)	7	12	17

Naval Information Processing System (NIPS) - The funds support the efforts of people located at three Naval facilities in their role of fleet support to the NIPS. The operations financed are: (1) computer program maintenance with documentation, (2) intelligence data base maintenance, (3) contractor and government engineering and technical services, (4) installation and de-installation of equipment on LCC's, CV's, LHGA's and shore commands, (5) repair of equipment, (6) hardware software and documentation configuration control, (7) facility operation and maintenance of the three engineering activity computer systems. The FY 86 funds will be used as set forth below:

(1)	Computer Program Maintenance			
	with documentation	1,177	1,137	972
	(2 program/year) AN/USQ-34 (CV)	•	•	
	(2 program/year) AN/SSQ-64 (LCC)	400	400	400
	(1 program/year) AN/SYQ-9 (LHA)	300	380	300
(2)	Repair Support			
	AN/USQ-34	200	200	200
	AN/SXQ-8	200	200	200
(3)	Tech Services to Fleet Units	200	300	300
	(43 systems/4200 man hours)			
	AN/USQ-34 (17)			
	AN/SXQ-8 (18)			
	AN/SSQ-64 (2)			
	AN/SYQ-9 (6)			
(4)	Installation Support			
	2 New Systems AN/SXQ-8	0	0	75
	2 New Systems AN/SYQ-9	0	. 0	125
	5 New (FIST)	0	. 0	50

Activity Group: Engineering and Support Services (Cont'd)

III. Performance Criteria (cont'd)

	FY 1984	FY 1985	FY 1986
	Numbers	of Equipmen	ıt
4 Graphic Change Kits AN/USQ-34	53	53	53
(5) Data Base Support			
(6) Facility Maintenance and Operation	s (3 Fiel	d Activitie	es)
AN/SYQ-8			
An/usq-34			
AN/SYQ-9			
AN/SSQ-64	150	150	150
TOTAL NIPS FUNDING	\$2,680	\$2,820	\$2,825
ELECTRONIC WARFARE (Exluding OUTBOARD)			
TOTAL FUNDING	\$5,548	\$9,038	\$12,170
TOTAL FUNDING	\$3,340	\$9,036	\$12,170
Element of Expense			
J Band Receiver and Deception			
Repeater AN/SLO-17A(V)2	7/2,572	11/3,017	12/4,624
Repeated 121/024 2/11/1/2	,,,,,,,	11/0,01/	12,4,024
Tactical Surface ESM			
Receiver AN/WLR-1H	0/260	0/644	5/800
•			
(Surface Cryptologic Warfare			
including OUTBOARD)			
1) Title/Nomenclature			
a) OUTBOARD Phase I (includes			
1 each OK-324/SUQ, OB Ancillaries			
AN/SLR-16A, AN/SRD-19A, OE-236/SR	D) 29	31	33
b) OUTBOARD Phase II (includes			
1 each AN/SLR-23 and AN/SYQ-8	16	22	27
c) CCSC/CCSS (AN/SSQ-93)	2	6	16
d) COMBAT DF (AN/SRS-1)	0	2	7
2) Elements of Expense (\$000)			
a) Maintenance			
1) Hardware	566	588	788
2) Software	595	794	1,148
b) Refurbishment	0	698	698
c) IMA/FMA	740	2,304	3,056
***d) Installation/Deinstalaltion	316	389	389
ANDRONA T. THOROTON	/o o==\	//	(6 075)
SUBTOTAL FUNDING	(2,217)	(4,773)	(6,079)

^{* =} Includes all within envelope changes to keep pace with threat environment.

DECOY - ASMD (Incudes MK36, MK-34, and MK-33 265/378 282/560 286/800

^{*** =} Dynamic relative to usage.

^{*** =} Includes all portable/carry-on instllations/deinstallations and permanent shore site installations.

Activity Group: Engineering and Support Services (cont'd)

III. Performance Criteria (cont'd)

Surface Cryptologic Warfare including OUTBOARD (cont'd)

Configuration Audit of installed systems will be performed on all platforms in FY 1986. Due to funding shortfalls in prior years configuration audit was delayed until FY 1986.

	FY 1984	FY 1985	FY 1986
0	_	f Equipment	21/150
Carry-on Countermeasures Devices	31/0 44/0	31/150 44/150	31/150 44/150
AN/SLQ-20A AN/ULQ-6 & Variants	44/0	44/150	44/130
Multilex Unit for Transmission			
Elimination AN/SSQ-82	14/0	15/250	16/250
AN/WLR-1 (Includes Band 10 Tuners)	107/0	97/250	94/250
AN/SLA-10	397/0	397/150	397/150
Equipment Nomenclature (Inventory):	39770	39//130	39//130
*FMA	1 250	1 027	2 100
Maintenance	1,359 380	1,927	2,180
ETS (i.e. ECP engineering &	300	650	1,050
validation integration &			
	055	1 217	1 460
analysis	855 451	1,317	1,460
*Configuration Management		785 400	1,784
*Material Support	165	492	700
SUBTOTAL FUNDING	\$3,210	\$5,171	\$7,174
*Included in inventory			
	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
ADP SECURITY			
ADP Test and Evaluations			
(T&E) per year	390/13	420/14	420/14
Technical Assistance	250/20	312/25	412/33
Technical Support	374	367	351
IG Support	<u> 175/20</u>	175/20	175/20
TOTAL FUNDING	\$1,189	\$1,274	\$1,358
INSPECTION TESTING			
Qualification Tests	3	25	15
Special Tests	1	4	7
T&E Master Plans Prepared	27	30	30
TOTAL FUNDING	\$ 5 30	\$ 650	\$ 628
	FY 1984 \$/Units	FY 1985 \$/Units	FY 1986 \$/Units
GPETE TECHNICAL OPERATIONS			
Test Equipment Suitability	0	70	86
Evaluations Completed			
Test Equipment Allowances	0	87	107

Activity Group: Engineering and Support Services (cont'd

III. Performance Criteria (cont'd).

	FY 1984 \$/Units	FY 1985 \$/Units	FY 1986 \$/Units
77 1 4 1 (61 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	* *	* *	•
Updated (Shore Activites)	0	87	107
Test Equipment Specifications	5	130	160
Prepared	5	130	160
Test Equipment Measurement Capability Groups Revised			
and Updated	0	87	107
TOTAL FUNDING	\$ 605	\$1,390	\$1,748
	FY 1984	FY 1985	FY 1986
	Units/\$	Units/\$	Units/\$
TEST and MONITORING SYSTEMS			
Navy Automatic Testing Program			
(W/Y)	1/50	2/180	2/184
JLC Program on Automatic Testing			
(W/Y)	1/50	1/90	1/92
Testing Technology Office &			
Information Center	9/670	10/830	8/672
ATE Inventory and Data Banks			
Developed/Maintained	2/30	2/80	2/281
Automatic testing guides			
and guidance documents (W/Y)	1/50	2/180	2/184
ATLAS Test Programming Language			
(W/Y)	1/50	1/90	1/46
Automatic Testing Standardization			
(W/Y)	1/50	1/90	1/46
Automatic courses maintained/			
offered	8/80	10/100	11/135
Manual Testing/METCAL Program			
(W/Y)	1/60	3/245	3/256
Perform Calibration			
Consolidation Studies	1/15	2/24	2/30
TOTAL FUNDING	\$1,105	\$1,909	\$1,926

NOTE: Some of the TAMS performance criteria is not related to work years.

MAINTENANCE ENGINEERING

Nomenclature and Configuration
Management
Nomenclature requests processed 2,068 2,114 2,120
Tracked in-process engineering 1,293 1,321 1,400
change proposals

Activity Group: Engihneering and Support Services (cont'd)

III. Performance Criteria (cont'd)

Maintenance Engineering (cont'd)			
	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
Provisioning			
New Allowance Parts Lists generated	809	837	775
Revision to Allowance Parts Lists	65	66	60
Provisioning actions completed	612	626	650
Technical referrals	560	572	580
PSD Sheets Processed	619	675	710
Field Maintenance Agent Engineering			
Support			
Casualty Report/3M reviewed and			
analyzed	800	780	820
Technical problems investigated/	000	700	020
	207	195	200
beneficial suggestions evaluated		53	55
User Comment sheets responses	52	23	33
Engineering change proposals (ECPs)	50		
prepared/reviewed	52	53	55
Planned Maintenance System (PMS)			
Document development backfit			
and new equipment problems corrected	35	46	50
Subsystems developments and			
redevelopment	90	105	110
Subsystems feedback reports	30	103	110
	265	289	295
processed	336	343	350
Failure Analysis Reports	246	343 252	255
Installation Control Drawings	240	232	233
(ICDs)	20	40	/ 2
Technical Data Packages	39	40	43
Fleet Secure Voice Systems	131	134	129
DOD Interservicing			
Specification			
Generated	561	573	580
Generated	301	3,3	300
Depot Maintenance Interservice Support			
Agreements (DMISA)			
DMISA negotiated	2	2	2
DMISA reviewed/updated	6	6	5
Driida leviewed, apaated	v	•	3
Technical Repair Agent			
Depot assignments made/planned	216	220	230
Technical repair standards			
developed	130	133	135
Test jigs/fixtures developed	22	22	22
Depot certified	9	9	10
-			

Activity Group: Engineering and Support Services (cont'd)

III. Performance Criteria (cont'd)

Maintenance Engineering (cont'd)			
	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
BREAKOUT (BOSS)			
Technical review/validation of			
acquisition packages	52	54	52
Reprocurement data packages			
reviewed/certified	440	460	440
Procurement Method Codes recommended	52	54	52
Automatic Carrier Landing System (ACLS -	- DART)		
Pre-Positioning Technicians	635/14	680/14	708/14
Pre-Positioning Grooming/OJT	600/14	464/14	520/14
Logisitics Support/Mgmt	709/14	700/14	732/14
AN/SPN-41 Improvement Mods	100/1	0/0	0/0
AN/SPN-42 Improvement Mods (1)	1,010/3	237/4	445/6
AN/SPN-43 Improvement Mods (1)	_,	158/7	1,747/7
SUBTOTAL ACLS-DART FUNDING	(\$3,054)	(\$2,239)	(\$4,152)
TOTAL FUNDING	\$8,353	\$10,148	\$11,556

⁽¹⁾ The unit cost increase from FY 1985 to FY 1986 for the AN/SPN-42 is the result of performing more complex and extensive tests on field change modifications. The AN/SPN-43 unit cost increase is the result of fabrication and test of the Moving Target Detection (MTD) field change and more complex and extensive testing of other SPN-43 field change modifications.

	FY 1984	FY 1985	FY 1986
	\$/Units	\$/Units	\$/Units
OTHER ENGINEERING SERVICES			
Cost Estimating			
Man years of support effort	3	3	0
RACC/ATS Updates & Inquiries	70,000	70,000	71,539
Uniform Inventory Control (UICP)			
MILSTRIPS documents processed	20,000	20,000	21,467
Data updates/retrievals	125,000	125,000	131,950
Weapons systems data retrievals	55,000	55,000	58,026
Technical documentation validations	9	11	14
Total Ship Test Packages			
Implementations	11	24	29
TSTP Equipment Maintenance	75	125	159
TSTP Acceptance Testing	38	63	72
NAVMACS Systems Operational Tests	10	11	11
Number of RADHAZ Surveys	15	16	38
Basic Alteration Configuration Reviewed		•	
Drawings (BACDs) of Systems/Subsystems	4	4	6
Fleet Tactical Communications Program:			
Ship alteration proposals and records			
for external communications shipboard	1		
projects	8	8	11

Activity Group: Engineering and Support Services (cont'd)

III. Performance Criteria (cont'd)

OTHER ENGINEERING SERVICES (cont'd)

Į	FY 1984	FY 1985	FY 1986
\$7	Units	\$/Units	\$/Units
Standard installation drawings	8	7	14
Planning detailed specifications and drawings for Combat Systems	8	7	14
Life Extension Program Studies of operational systems	4	3	4
to determine the impact of new systems scheduled for intro-			
duction into the Fleet	4	3	5
Formulate test outlines for post			
installation integrated system test	16	15	14
Full scale mock-ups of external communication shipboard spaces in			
support of the Fleet Improvement Program	7	6	7
ABFC's reviewed	Ö	7	12
Topside FMP Design Engineering Evaluations TOTAL FUNDING	10 \$2,286	31 \$3,064	36 \$3,448

IV. Personnel Summary - NONE

Department of the Navy Operation and Maintenance, Navy

Activity Group: Contractor Technical and Maintenance Support

Budget Activity: VII Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

CARLOR - CARLOR OF COMPANIES CONTRACTOR

Fleet Engineering/Technical Support - Program improves and maintains electronic readiness by providing emergency technical assistance, improving shipboard maintenance capabilities and providing assistance to support the President, Board of Inspections and Survey. This technical assistance is beyond ships force capability. Support is provided by Mobile Technical Unit (MOTU) contractor effort and Navy in-house services. Requirements for technical services are determined annually in conferences with Fleet representatives, through review of past year utilization data, new equipment and field change delivery schedules, Navy manning levels, ship movements, and political climate in strategic areas.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout

<u></u>	FY 1984	Budget Request	FY 1985 Appro- priation		FY 1986 Budget Request	Change
Fleet Engineering/ Technical Support	7,045	4,362	4,317	5,428	6,552	1,124
Total O&M,N	7,045	4,362	4,317	5,428	6,552	1,124

Activity Group: Contractor Technical and Maintenance Support (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate		\$5,428
2.	Pricing Adjustments		185
	A. Other Pricing Adjustments	(185)	
3.	Program Increases		939
	A. Other Program Growth in FY 1986 1. Fleet Engr/Tech Support - Represents an increase of an additional 236 ship visits.	(939)	
4.	FY 1986 President's Budget Request		6,552

Activty Group: Contractor Technical and Maintenance Support (cont'd)

III. Performance Criteria.	FY 1984	FY 1985	FY 1986
Fleet Engineering/Technical Support	Units/\$000	Units/\$000	Units/\$000
Mobile Technical Unit WYs (contractor)	46/3864	36/2720	36/2880
Inspection and Survey (INSURV)	205/ 534	205/ 564	205/ 615
Emergency technical assists (in-house)	680/1063	680/1122	680/1224
Scheduled ship visits (in-house)	765/ <u>1584</u>	340/1022	576/ <u>1833</u>
Total	\$7,045	\$5,428	\$6,552

IV. Personnel Summary - NONE

Department of the Navy Operation and Maintenance, Navy

Activity Group: Maintenance Support

Budget Activity: VII Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Marine Air Traffic Control Squadron (MATCS) - The MATCS Maintenance Support Program provides the external engineering support necessary to maintain the combat readiness posture of transportable tactical air traffic control and landing systems supporting the four Marine Aircraft Wings to launch and recover aircraft under all weather conditions during tactical operations and when directed assist geographical areas during catastrophic situations. The program finances installation; centralized standardization of systems, subsystems and equipments; planned product improvements, tests, measurement and diagnostic support; centralized software support; training (formal and OJT); organizational level maintenance support.

Standards, Calibration and Repair - This program funds calibration and repair of all electronic standards which are laboratory devices used to calibrate other test equipments of lesser accuracy. This program includes engineering efforts at the Metrology Engineering Center to improve measuring techniques, upgrade Navy calibration standards and equipments, assign and modify calibration intervals for test equipments, and conduct audits of calibration laboratories.

Test Equipment Maintenance - This program provides for the calibration and repair incidental to calibration, of all fleet-held electronic and electrical test, measurement and diagnostic equipment (TMDE). These equipments are used to install, align, adjust, operate and maintain all prime electronic and electrical systems in use aboard ships of the active fleet to ensure the material readiness of all radar, sonar, communications, countermeasure, surveillance, navigation, and propulsion systems. This program also provides for the continuation of the Measurement Equipment Automated System for Uniform Reporting and Evaluation (MEASURE) program to manage the maintenance of the test equipment inventory and the GPETE Assets Screening Program (GASP).

Precise Time and Time Interval (PTTI) - This program provides engineering support and quality assurance for the Verdin 0-1695 Cesium Beam Frequency Standards (CBFS), which require an emergency replacement capability for inoperative units onboard nuclear submarines; the AN/URO-23 Frequency Time Standard; the SG-1157/V Digital Processing Clock: and Army owned frequency standards under the Defense Satellite Communications System program. The PTTI program also provides for time calibration via portable clock trips and operational and maintenance training for PTTI users. There are annually scheduled clock trips to approximately 40 Navy and 14 Army activities and approximately one unscheduled clock trip per month.

I. Description of Operations Financed (cont'd)

Cryptographic (Crypto) Repair - Commencing in FY 1984, the Crypto Repair program provides for the maintenance of communications security (COMSEC) documentation and for system operation and verification tests on automatic and manual Secure Audio System (SAS) shippard installations to ensure that no technical problems exist prior to ship deployment. Installation of the second generation COMSEC devices significantly increases the support for major influxes of new equipment. This effort is essential to ensure reliability and maintainability of the communications systems.

RADIAC Maintenance Support - Provides for (1) RADIAC coordination by NAVELEX RADIAC Field Managers and RADIAC Coordinators at selected locations throughout the country and aboard who act as liaisons between NAVELEX and the fleet or other customers in order to provide quick response to any problem with RADIAC equipment maintenance and radioactivity control; assist the fleet in obtaining emergency replacements of equipment required for inoperable or lost RADIAC equipment; ensure that shore RADIAC allowances and inventories are current; coordinate funding requirements for and monitor workload scheduling and performance of the sixteen (16) RADIAC Repair Facilities which calibrate RADIAC equipment; assure compliance with NAVELEX, NRC and local regulations governing radioactive material and sources used in connection with the RADIAC program; (2) maintenance of the Measurement Equipment Automated System for Uniform Reporting and Evaluation (MEASURE) data flow and accuracy for RADIAC equipment; (3) lead activity/engineering support for implementation and tracking of field changes, formulation of standard maintenance and calibration procedures, maintenance of applicable approved parts lists, and review of the Planned Maintenance Sub-systems (PMS) documentation for RADIAC equipments; (4) technical and engineering support services directly related to engineering, technical and logistics projects supporting the RADIAC Program for such specific programs as the Thermoluminescent Dosimetry (TLD) and Air Particle Detector quality assurance programs; maintenance of standards pools, fleet support, maintenance and support TRITIUM equipment, QPL testing of quartz fiber dosimter, and management of a RADIAC test and evaluation facility; (5) provides for standardization of fleet and shore RADIAC calibrators and performance of acquisition engineering services by NAVELEXCEN Charleston.

Anti-Ship Missile (Electronic Warfare) System - ASM(EW) - Provides an EW capability to automatically detect, sort and classify, track and continuously display RF emitters, platform types and bearings in the relevant electromagnetic targeting and missile associated emitters.

Support is provided in 4 major categories: Life-cycle Software support including threat libraries, Fleet Maintenance Activity (FMA), engineering technical services and Intermediate Maintenance Activity (IMA) support.

Specifically, the threat library effort includes coding threat parameter data, revising and testing detection/display/response algorithms; validation testing utilizing the Tactical EW Environmental Simulator (TEWES) at Dahlgren; computer tape production and distribution; and Fleet software status accounting.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Breakout

	FY 1				FY 1986		
		Budget	Appro-	Current	Budget		
	FY 1984	Request	priation	<u>Estimate</u>	Request	Change	
MATCS	3,497	4,618	4,227	4,154	5,331	1,177	
Standards, Cal and Repair	2,457	2,283	2,029	2,023	2,434	411	
Test Equip Maint	2,294	3,347	2,832	2,745	3,207	462	
PTTI	577	1,193	1,091	1,066	994	-72	
Cryptographic Repair	980	1,048	965	934	1,804	870	
RADIAC Repair	2,804	2,651	2,328	2,263	2,738	475	
Anti-Ship Missile (EW)	10,353	23,968	20,176	20,144	22,757	2,613	
TOTAL O&M,N	22,962	39,108	33,648	33,329	39,265	5,936	

B. Reconciliation of Increases and Decreases.

1. FY 1985 Current Estimate 33,329

2. Pricing Adjustments

93

Α.	Stock Fund	(-117)
	1. Fuel	-117
В.	Industrial Fund Rates	(-355)
C.	Other Pricing Adjustments	(565)

3. Program Increases

5,905

A. Other Program Growth in FY 1986 (5,905)

- 1) MATCS Increase will result in 1,141 5 additional installations being accomplished (150); increased testing in FY 1986 at Patuxent River Test Site to support increased scope (200); increase in funds to complete MATCS Maintenance Support on 4 Squadrons as FY 1985 funds only accomplished partial completion (791).
- 2) Standards, Calibration & Repair 392 Increase will provide 25 more calibration laboratory allowances (51); 16 more maintenance update documentations (10); 70 more Calibration Processing Evaluations (45); 43 more field inventory reports (13) and 113 more TMDE Interval Analysis performed for General Purpose Electronic Test Equipment (GPETE) (45); increase of 2 M/Y to support Metrology Engineering Center technical functions (228).
- 3) Test Equipment Maintenance 401
 Provides for 14,224 additional Measure
 Recalls (80); provides the Measure Program
 4 M/Y of ADP capability for determining workload
 at Naval laboratories, distribution of Measure
 reports approximately 5 times a month to 150
 activities (261); provides for increased
 complexity of Field Calibrations Activity Management
 Audits which will be performed at shipyards and
 laboratories (39); increase in .5 M/Y for
 Management Informations System (MIS) support (21).

- 3. Program Increases (cont'd)
 - A. Other Program Growth in FY 86 (cont'd)
 - 4) Cryptographic Repair Represents 831 an increase of 37 operational verification/ acceptance tests on Secure Audio System (SAS) installations with associated technical support and planning documentation (2M/Y).
 - 5) RADIAC Maintenance Support Increase
 1f for 2 manyears of effort in the RADIAC
 Coordination and Field Manager Program
 (117); one manyear of effort required
 for engineering support at shippards required
 for developing calibration procedures and field
 changes for RADIAC equipment used by the fleet
 (104); 2 manyears of effort required for
 technical services support (237); one-half
 manyear of effort to be expended in MEASURE
 Program Management (58).
 - 6) Anti-Ship Missile (EW) Increase 2,624 will provide for 7 additional validated geographically tailored threat libraries; perform repairs to 20 additional fleet units (2,431); increase manpower to support hardware configuration management, equipment acquisition support, ECP engineering design installations, maintenance engineering, EMI/EMC analysis and support the AN/SLQ-32(V) improvement program (193).
- 4. Program Decreases

-62

- A. Other Program Decreases in FY 1986 (-62)
 - 1) PTTI Decrease reduces engineering -62 support for Cesium Beam Frequency Standards (CBFS) resulting in 13 less cesium beam replacements.
- 5. FY 1986 President's Budget Request

39,265

III. Performance Criteria and Evaluation

MATCS		FY 1984	FY 1985	FY 1986
		Units/\$000	Units/\$000	Units/\$000
Installations	Required	8/	28/	33/
	Financed	8/190	28/995	33/1,150
Inspections	Required	4/	4/	4/
	Financed	2/ 50	2/ 50	4/ 100
Test	Required	1/	1/	1/
	Financed	1/300	1/300	1/ 500
MATCS Maintena	nce Support			
(Squadron)	Required	4/	4/	4/
(04-00-00)	Financed	4/834	4/716	4/1,800
SSA Maintenanc	e Facility			
JOA Maintenant		14/	12/	10/
	Required	• •		12/
	Financed	14/885	12/720	12/ 726
	pport (Vallejo)			
OJT/PMS	Required	10/	10/	7/
	Financed	10/194	10/345	7/ 255
Support	Required	8/	9/	8/
Contractor	Financed	8/552	9/603	8/ 500
TERPES	Peguirad	7/	7/	4/
LERPES	Required			••
	Financed	7/492	7/425	4/ 300
Total Fu	nding:	3,497	4,154	5,331
Standards, Cal	ibrations & Repair			
		Units/\$000	<u>Units/\$000</u>	<u>Units/\$000</u>
Calibration La	boratory Allowance	206/144	213/145	238/198
Maintenance Un	date Documentation	140/131	133/126	149/137
	ocessing Evaluation	620/277	587/267	657/314
Field Inventor		362/183	356/173	399/186
TMDE Intervals		1316/246	939/166	1,052/193
Metrology Engr		1310/240	737/ 100	1,002/193
	nctions (M/Y)	19/1,476	15/1,146	17/1,406
Total Fundin	g;	\$2,457	\$2,023	\$2,434

III. Performance Criteria and Evaluation (cont'd)

Test Equipment Maintenance

Test Equipment Maintenance	FY 1984	FY 1985	FY 1986	
	Units/\$000	Units/\$000	Units/\$000	
MEASURE Recalls GASP transactions Documentation prepared	260,418/1,359 3,610/ 416 244/ 124	218,846/1,238 3,060/ 391 216/ 127	233,070/1,313 3,060/408 230/117	
Field Calibration Activity (FCA) management audits Engineering evaluations	55/ 83 269/ 312	45/76 220/310	45/102 220/323	
Shore Allowances	0	0	0	
	MY/\$000	MY/\$000	MY/\$000	
Naval Training Plan Calibration Requirement Sys.	0	3/113 3/155	3/120 3/180	
Field Calibration Tech. Rep.	ŏ	6/259	6/292	
Requirements Management Info System (MIS)	0	1/ 76	5/112	
MEASURE ADP Maintenance	0	0	4/240	
Total Funding:	\$2,294	\$2,745	\$3,207	
Precise Time and Time Interval				
Portable Clock and Emergency Clock Visits Required Financed	3	3 3/300	3 3/312	
Cesium Beam Replacement				
Required		44	133	
107 Financed 107/670	44	4/277	120/754	
Total Funding:	\$577	\$1,066	\$994	
Cryptogrphic Repair				
Operational verification/acceptests on SAS installations (Technical Support & Planning		27/439	64/1,219	
Documentation (M/	Y) <u>10/450</u>	11/495	13/585	
Total Funding:	\$980	\$934	\$1,804	

III. Performance Criteria and Evaluation (cont'd)

	FY 1984	FY 1985	FY 1986
RADIAC Repair			
	MY/\$000	MY/\$000	MY/\$000
RADIAC Coordinators	8/400	8/400	10/513
Engineering Support	16/826	12/600	13/700
Technical Services Support	17/1,228	13/1,018	15/1,250
Measure Program Management	<u>6/350</u>	4/245	4/275
Total Funding: ASM(EW)	\$2,804	\$2,263	\$2,738
	Units/\$000	Units/000	Units/000
Life Cycle Software (# ships)	206/4,431	245/6,747	265/6,929
Threat Libraries	4/ 649	3/ 831	10/2,856
FMA (# ships)	206/3,034	245/6,216	265/6,384
Eng Tech Svcs (# ships)	206/1,496	245/2,815	265/2,891
IMA Support (# ships)	206/ 743	245/3,535	265/3,697
Total Funding	\$10,353	\$20,144	\$22,757

IV. Personnel Summary - NONE

Department of the Navy Operation and Maintenance, Navy

Activity Group: Maintenance of Real Property

Budget Activity: VII - Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Facilities Maintenance - Provides for both scheduled and day-to-day recurring facilities maintenance and repair actions, as well as emergency service work needed to preserve facilities at the Naval Electronic Systems Command's field activities in an operational status and within Navy standards. The facilities include the following types: electronic shops, electronic laboratories, administrative spaces, roads and grounds, electronic maintenance facilities and storage buildings including maintenance of utilities.

Minor Construction (MC) - Minor Construction provides for interior alternations and upgrading of spaces within the Commanding Officer's authority to accommodate new electronics tasking and to provide for shop, laboratory and administrative spaces within Naval Electronic Systems Command's field activities.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation		Budget Request	Change	
Facilities Maintenance	1,407	821	821	821	853	32	
Minor Construction	801	371	371	372	247	-125	
Total O&M,N	2,208	1,192	1,192	1,193	1,100	-93	

Activity Group: Maintenance of Real Property (cont'd)

B. Reconciliation of Increases and Decreases.

_				
1.	FY 1985 Current Estimate			1,193
2.	Pricing Adjustments			39
	A. Industrial Fund Rates B. Other Pricing Adjustments		(32) (7)	
3.	Program Decreases			-132
	A. Other Program Decreases in 1 1) Reduction of 5 minor con- projects	FY 1986 struction	(-132) -132	
4.	FY 1986 President's Budget Requ	est		1,100
III.	Performance Criteria	FY 1984	FY 1985	FY 1986
	log, Maint & Repair (\$000) dings (KSF)	1,118 1,337	1,175 1,337	1,232 1,337

IV. Personnel Summary - NONE

Department of the Navy Operation and Maintenance, Navy

Activity Group: Base Operations

Budget Activity: VII - Central Supply & Maintenance

Claimant: Chief of Naval Material (Naval Electronic Systems Command)

I. Description of Operations Financed

Operation of Utilities (00U) - Utilities provide for electricity, heat, steam, water and sewage purchased from a Naval activity or commercial source, depending on the location of the activity. The field activities of the Naval Electronic Systems Command do not operate power generation or central steam plant facilities.

Other Engineering Support (OES) - Provides for custodian services, refuse disposal, emergency service work (other than real property), fire protection, leases, guard services, pest control, general services for shops, laboratories and administrative spaces in field activities of the Naval Electronic Systems

Base Communications - Base Communications provides for such costs as services, local, autovon and long distance calls, switchboard support, message center support and telegraphic message capability, purchased communications costs, initial installation and monthly recurring charges.

II. Financial Summary (Dollars in Thousands).

Sub-Activity Group Breakout

A. Sub-Activity Gio	dp breakout		FY 1985	Y 1985			
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change	
Utilities Other Engineering	1,404	2,130	2,130	2,130	2,184	54	
Support	2,125	1,655	1,545	1,545	1,600	55	
Base Communications	2,419 5,010	2,496	2,496	2,736	2,683	- <u>53</u>	
Total O&M.N	5.948	6.281	6.171	6.411	6.467	56	

Activity Group: Base Operations (cont'd)

Ownership Operations (\$000)

Other Engineering Support (\$000)

В.	Reconciliation	of	Increases	and	Decreases.

b. Kec	onciliation of increases and per	creases.				
1.	FY 1985 Current Estimate			6,411		
2.	2. Pricing Adjustments					
	A. Industrial Fund Rates B. Other Pricing Adjustments		(-8) (190)			
3.	3. Program Decreases A. Other Program Decreases in FY 1986 (-126) 1) Reduction of 60 main lines -126 and 180 instruments for communications					
4.	FY 1986 President's Budget Requ	ıest		6,467		
III. Per	formance Criteria and Evaluation	1. FY 1984	FY 1985	FY 1986		
Base Opera	ations (\$000)	5,948	6,411	6,467		
Operation	on of Utilities (\$000)	1,404	2,130	2,184		
Total	Energy Consumed (MBTU's)	19,000	18,000	18,000		
Total	Non-Energy Consumed (K-Gals.)	3,000	3,000	3,000		
Base Co	mmunications (\$000)	2,419	2,736	2,683		
Numbe:	r of Instruments	3,872	4,002	3,822		
Numbe:	r of Mainlines	1,321	1,331	1,271		
Daily	Average Message Traffic	621	649	705		

2,125

2,125

1,545

1,545

1,600

1,600

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Supply Operations
Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

Supply Operations under the Naval Supply Systems Command provide: (1) effective response to requisitions for worldwide operations and maintenance requirements of Navy fleet and shore units; (2) timely freight terminal services for the shipment or receipt of material carried by the stock point activities and for the transshipment of material designated for fleet units and other activities throughout the world; and (3) effective supply services to all Navy units other than to filling requisitions for material or the processing of transshipments. Funding under this activity group finances the operations of eight stock point activities located in the United States, engaged in the receipt, storage and distibution of military supply items and the provision of other services such as fueling and procurement support. This activity group also finances military support operation of the supply departments at three Naval Shipyards.

This submission incorporates the efficiencies gained as a result of the installation of productivity enhancing projects. As allowed by Department of Defense policy, investment of these productivity savings has been incorporated at the activity level.

Financial Summary (Dollars in Thousands).

Sub-Activity Group Breakout.

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change	
Supply Depot Operations	215,356	276,242	264,624	239,015	258,028	+19,013	
Supply Departments at Naval Shipyards	7,108	8,131	8,131	7,820	7,633	187	
Total, Supply Operations	222,464	284,373	272,755	246,835	265,661	+18,826	

B. Reconciliation of Increases and Decreases.

1.	FY 1985	Current Estimate		\$246,835
2.	A. Civ 1) 2) B. Sto 1) C. Ind	Adjustments ilian Personnel Compensation (Direct) US Direct Hire Pay Adjustment Other Direct Pricing Adjustment ck Fund Fuel ustrial Fund Rates er Pricing Adjustments	(-4,693) -7,112 2,419 (-402) -402 (-267) (1,167)	-4,,195
3.	Function	nal Program Transfers		4,149
		Inter-Appropriation - Expense/ Investment Criteria Revision - Amounts transferred from Other Procurement, Navy pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as a governing factor.	(6,312) 6,312	
		nsfers Out Inter-Appropriation - Transfer of the subsistence operation at Alameda (NSC Oakland) to the Defense Logistics Agency.	(-2,163) -2,163	
4.	Program	Increases		20,841
	A. Ann	ualization of FY 1985 Increases President's Private Sector Survey	(7,224)	

on Cost Control (PPSSCC) - Annualization of funding for high grade personnel at Supply Centers to provide civilian oversight, improve management continuity

and ensure senior civilian accountability. 744
2) Supply Center Workload - Annualization of funding for additional civilian personnel who perform receipt and issue of material to fleet and industrial customers in order to sustain supply depot processing times at an acceptable level of 90% on-time, in the face of increasing workload caused by the 600 ship Navy program and more sophisticated 3,528 weapons systems.

- B. Reconciliation of Increases and Decreases (cont'd).
 - 3) Inventory Accuracy Annualization of funding for additional civilian personnel for improved inventory accuracy at supply depots. Personnel were added by Congressional direction to improve inventory integrity, and concurrently improve fleet material readiness. 2,928

4) Contact Management Review Annualization of end strength added
in FY 1985 to perform contract management
review and allow for improved
oversight of Navy contracts.

24

B. Other Program Growth in FY 1986 (13,617)

- 1) Stock Points Logistics Integrated
 Communications Environment (SPLICE)Funds are required to download ADP
 applications onto the SPLICE hardware.
 These funds will be used for additional
 disk packs and controllers, memory, etc.,
 and items require for the high speed
 data channel which will be delivered
 during the FY 1985/FY 1986 timeframe. 1,039
 - 2) Navy Integrated Storage Tracking and Retrival System (NISTARS)
 Maintenance Funding is required for maintenance of the NISTARS hardware at Naval Supply Centers Oakland,
 Norfolk, and San Diego, as well as loading costs and maintenance costs for government-furnished equipment at other Naval Supply Centers for which NISTARS hardware will be procured in subsequent years.

 3.822

3) President's Private Sector Survey on Cost Control - The PPSSCC recommended the strengthening of automated support and the improvement of work standards at Naval Supply Centers. The funds requested will enable the Navy to install terminals and upgraded computer peripheral devices in several logistics functions -customer service, inventory control, physical inventory, and receipt and material locations control. Improved inventory and financial record accuracy will result from the upgraded system. Funding will also provide for moving toward a "paperless environment" and re-engineering the work place.

B. Reconciliation of Increases and Decreases (cont'd).

4) Contract Management Review - Additional end strength and funding are required to perform contract management reviews to allow for improved oversight of Navy contracts, thus ensuring that the Government is utilizing resources in the wost effective manner.

5) Physical Security Upgrade - Funds are required for supplies and equipment (e.g., fencing and alarms) to upgrade physical security at the Naval Supply Lenters. These security measures will prevent loss and pilferage of items stocked at the Centers, thereby reducing losses to the government. These improvements directly support the Inventory Accuracy

Improvement Program and are in consonance

with DOD Directive 5200.8. 6) Supply Depot Workload - Additional end strength and funding required to ensure that supply centers are able to maintain acceptable issue and receipt processing times concurrent with workload growth.

5. Program Decreases

24

3.211

361

-158

-588

- (-130)A. Annualization of FY 1985 Decreases 1) Logistics Application for Automated Marking and Reading Symbols (LOGMARS) -Annualization of savings to be realized in FY 1985 as a result of implementing LUGMARS at Navy Stock Points. -130
- Otner Program Decreases in FY 1986 (-1.839)1) Automated Material Handling Systems (AHHS) Savings -Savings resulting from the installation and operation of AMHS at Naval Supply -707 Centers.

2) Project BUSS (Buy Our Spares Smart) -Reduced support costs for the non-lapor portion of the Project BOSS effort at Supply Depots.

President's Private Sector Survey on Cost Control (PPSSCC) Savings -Savings attributable to the implementation of certain initiatives recommended by the PPSSCC.

-1,969

B. Reconciliation of Increases and Decreases (cont'd).

4) Efficiency Review Savings - Savings as the result of completion of efficiency reviews similar to those conducted under the Commercial Activities (CA) program.

5) President's Private Sector Survey
on Cost Control (PPSSCC) Reduced funding required in FY 1986 to
implement a computer security
program at stock points. -239

6. FY 1980 President's Budget Request

\$265,661

III. Performance Criteria.

Program Output	FY 1984	FY 1985	FY 1986
Line items issued and received (000)	13,245	13,619	13,831
Measurement tons of cargo handled (000)	ა, 058	8,308	8,437
Barrels of fuel throughput (000)	77,500	77,900	78,300
Line Items screened for credit (000)	1,002	1,030	1,038
Purchase requests completed (000)	394	449	478
Warenouse Refusal Rate	0.7%	0.7%	0.7%
Number of Locations Survey (million)	2.3	2.3	2.3
Location Survey Accuracy Rate	96%	97%	97%
Gross Monetary Adjustment Rate	5%	3%	3%
% of contracts awarded competitively	80.7%	82.3%	84.0%

IV. <u>Personnel Summary (End Strength).</u>

		FY 1984	FY 1985	FY 1986
A.	Military	291	281	281
	Officer Enlisted	188 103	182 99	183 98
в.	Civilian	7,743	8,439	8,022
	USDH	7,743	8,439	8,022

Department of the Navy Uperation & Maintenance, Navy Exhibit OP-5

Activity Group: Inventory Control Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

The mission of the Naval Supply Systems Command's Inventory Control Points is to maximize Navy and Marine Corps weapon system, aircraft, and ship readiness by establishing and maintaining total secondary (repairable and consumable) item supply support necessary for their operation and maintenance, and to provide supply support for certain items to other services.

This activity group finances the operation of inventory control point activities engaged in the management of secondary item supply support for operation and maintenance requirements of the fleet and shore establishment, and for the design, implementation, and maintenance of standardized logistics and related financial management systems. The objective of these systems is to improve fleet readiness, support weapon systems, and provide for economies in supply operations and inventory investment. This submission includes resources to improve spare parts acquisition through breakout and increased competition in the procurement process.

This submission incorporates the efficiencies gained as a result of the installation of productivity enhancing projects. As allowed by Department of Defense policy, reinvestment of these productivity savings has been incorporated at the activity level.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

		FY 1985			FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Inventory Control Operations	221,176	232,056	222,863	224,287	245,873	+21,586
Total, Inventory Control Operations	221,176	232,056	222,863	224,287	245,873	+21,586

Activity Group: <u>Inventory Control Operations (cont'd)</u>

B. Reconciliation of Increases and Decreases.

1.	FY 1965 Current Estimate	\$224,287
2.	Pricing Adjustments	-2,979
	A. Civilian Personnel Compensation (Direct) (-4,933) 1) US Direct Hire Pay Adjustment -6,147 2) Other Direct Pricing Adjustment 1,214 B. Stock Fund (-53) 1) Non-Fuel -53 C. Industrial Fund Rates (-216) D. Other Pricing Adjustments (2,223)	
3.	Functional Program Transfers	1,562
	A. Transfers In 1) Inter-Appropriation - Expense/ Investment Criteria Revision - Amounts transferred from Other Procurement, Navy pursuant to the proposed DoD initiative for elim- ination of \$3 thousand investment threshold and adoption of central management criteria as governing factor. (2,562)	
	B. Transfers Out (-1,000)	
	 Inter-Appropriation - Transfer of responsibility for inventory management of consumable items to the Defense Logistics Agency1,000 	
4.	Program Increases	24,851
	A. Annualization of FY 1985 Increases (1,243) 1) Logistics Application of Automated Marking and Reading Symbols (LOGMARS) Staffing - Annualization of funding for programmers required at the Fleet Material Support Office in support of the LOGMARS program. This program will provide bar-coding of materials and consequently enhance other inventory accuracy improvement efforts. 129 2) Project BOSS (Bur Our Spares Smart)- Additional resources are required in FY 1986 to provide full year funding for Price Fighters at the Fleet Material Support Office who will monitor spare parts purchases and will perform value analysis where cost or price exceeds the intrinsic value. 850	

Activity Group: Inventory Control Operations (cont'd)

- B. Reconciliation of Increases and Decreases (cont'd).
 - 3) Project BOSS (Buy Our Spares Smart) Annualization of resources required to
 ensure that contracting for spare parts
 is performed competitively by identifying
 parts which can be broken out to the
 original equipment manufacturer, thus
 bought from sources other than prime
 contractors.

4) Conventional Ammunition Integrated Management System (CAIMS) - Annualization of funding for personnel who provide in-house maintenance of procurement, production and renovation data, and monitoring of contractor deliverables.

B. Other Program Growth in FY 1986 (23,608)

34

230

155

10

- 1) TRIDENT End strength and funding to support increased Consolidated Shipboard Alowance List (COSAL) and Consolidated Shore Base Allowance List (COSBAL) maintenance/update requirements for increased TRIDENT ship population.
- 2) Industrial Preparedness Planning NAVSUP has the tri-service lead for the
 Rapid Acquisition of Manufactured Parts
 (RAMP) program. The RAMP program is
 dedicated to the development of manufacturing technology for use at the parts
 supplier level. Funding is required to
 prepare an implementation plan for technology
 transition of RAMP to the industrial base. 326
- 3) Expanded Navy Additional end strength and funding are required to perform inventory control functions in support of the 600-ship Navy. This increase is required in the technical review and provisioning areas.
- 4) President's Private Sector Survey on Cost Control (PPSSCC) Travel costs associated with the implementation of an Integrated Logistics Career Development Program for Supply Corps Officers.
- 5) Presidents Private Sector Survey on Cost Control (PPSSCC) Computer Backup The PPSSCC recommended that the ADP facilities at the ICPs establish a tested process for computer backup in the event of a site catastrophe. Funds will enable the development of an ICP

Activity Group: Inventory Control Operations (cont'd)

B. Reconciliation of Increases and Decreases (cont'd).

catastophe plan including risk analysis of threats and procedures to be followed in response to specific threats and the establishment of an off-site contractor ADP facility to provide ADP processing support during a catastrophe.

1,150

6) Stock Point ADP Replacement (SPAR) - The Stock Point ADP Replacement Project has two primary objectives: to replace the computer systems supporting the Uniform Automated Data Processing System (UADPS-SP) for Stock Points and to redesign the UADPS-SP applications programs. The increase in FY 1986 represents funding for benchmark performance contracts to encourage vendor participation in the competitive process (with awards scheduled for September, 1986), funding for site modification to prepare for installation of the test bed and funding for conversion work package preparation. In addition, there is an increase in funding for contractor maintenance of the current UADPS-SP applications programs.

7) Military Standard Contract Administration Procedures (MILSCAP) - In accordance with OSD direction, NAVSUP has been assigned Project Manager responsibility for MILSCAP. MILSCAP provides uniform procedures for the interchange of contract, logistics and financial data via AUTODIN between the Military Services and contract administration offices. All files will be updated from a common data source to ensure integrity and

common data source to ensure integrity and compatability. Funding will correct current differences in Navy contractual, logistics and financial systems.

3,000

4,244

8) Defense Data Network (DDN) - DDN is an OSD-directed telecommunications network to provide long distance (greater than 50 miles) communication requirements for the DOD community. DDN replaces existing public utility and military telecommunications networks, dedicated lines, and manual methods for massive data transfer. This funding provides the software necessary to link 31 other stock points and the 4 Navy Regional Contracting Centers.

1,109

Activity Group: <u>Inventory Control Operations (cont'd)</u>

B. Reconciliation of Increases and Decreases (cont'd).

- 9) Navy Integrated Storage Tracking and Retrieval System (NISTARS) Support -This funding is required to provide software support for NISTARS to properly maintain the Navy's investment in this system and keep it fully operational at all times. 1.974 10) UILP Kesolicitation Portability -Portability allows software to be compatible with various brands of hardware, thereby not restricting its use and allowing subsequent hardware upgrades and replacements. The FY 1986 requirement is for acquisition of the necessary portability tools and training 2,821 at the inventory control points. 11) Aviation Depot Level Repairables (AVDLR) Training - Beginning in FY 1985, AVULRS will be Stock Funded. This change in funding requires that personnel involved in managing DLRs be trained in such areas as carcass tracking, retrograde transshipment tracking, requisitioning, and report generation. Personnel in the command structure must be skilled in managing AVDLRs to ensure the full benefits of this management initiative. 1,696 to fund the installation of the SPUC production system and to properly size
- 12) UICP Resolicitation Resources required to fund the installation of the SPCU production system and to properly size the ASO production system, prior to moving converted programs onto the new Resolicitation hardware. These funds will also provide funding for currently installed equipment, to ensure that the Resolicitation program will continue on schedule.

13) Project BOSS (Buy Our Spares Smart) Additional funding is required to
increase competition in the procurement
of spare parts and meet the FY 1986
competition target of 30%.

competition target of 30%.

14) Security Upgrade - Funding to provide improvements in security such as AUP security, intrusion alarms, and security fencing. Installation of these improvements will prevent disruptions by terrorists and other unauthorized groups.

1,315

Activity Group: <u>Inventory Control Operations (cont'd)</u>

- B. Reconciliation of Increases and Decreases (cont'd).
 - 5. Program Decreases

-1.848

- A. Other Program Decreases in FY 1986 (-1,848)
 - 1) President's Private Sector Survey
 on Cost Control (PPSSCC) Decreased
 funding requirements for upyraded
 computers and computer security below
 the level of the FY 1985 effort. -183
 - 2) military Sealift Command (MSC) Support Decreased requirements because of completion of provisioning documentation for
 new MSC Snips in FY 1985. -120
 - 3) Buy Our Spares Smart (BOSS) Decreased requirements in the areas of
 value engineering, and automated systems
 as a result of completion of these
 efforts and reduced training requirements for personnel hired in FY 1985. -1,430
 - 4) Efficiency Review Savings Savings from completion of a program to perform efficiency studies such as those done for functions under the Commercial Activity (CA) Program. -115
- 6. FY 1986 President's Budget Request

\$245,873

Activity Group: <u>Inventory Control Operations (Cont'd)</u>

III.	Per	formance Criteria.	FY 1984	FY 1985	FY 1986	
end s		e following table summ ngth:	marizes potential	program	output based	on available
Line	Item	s Managed (000)	619	633	640	
		ected for oning (000)	761	771	785	
		of Contracts to ded Competitively	28.7%	28.8%	30%	
Purch	ase	Requests (000)	219	222	230	
Techr	nical	Reviews (000)	521	558	564	
IV.	Per	sonnel Summary (End S	Strength).			
			FY 1984	FY	1985	FY 1986
	A.	Military	260		258_	288
		Officer Enlisted	190 70		185 73	215 73
	В.	Civilian	5,878	_5	,891	5,881
		USDH	5.878	5.	.891	5,881

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Procurement Operations
Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

The mission of Procurement Operations is to provide for effective procurement services, and centralized administration of specialized supply programs. The mission of the Fleet Hospital program is to provide for the acquisition and life cycle support of self-contained, air-transportable/ relocatable fleet hospital units.

Funding under this Activity Group finances the operations of four Regional Contracting Centers (NKCCs) and special supply programs which are administered at the Headquarters, Naval Supply Systems Command. In addition, under the Fleet Hospital Program, funds are provided for the world-wide prepositioning or selected, modular units which comprise the hospitals, setting up and maintaining medical supply and other logistics support systems for their continued operation under war-time conditions, and all operations associated with the acquisition process. Beginning in FY 1985, this Activity Group also includes tinances for the operation of the Project Management Office, transferred from Command and Administration in accordance with DOD Instruction 5100.73.

II. Financial Summary (Dollars in Thousands).

		FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Kequest	Change
Supply System						
Services	31,503	46,526	46,171	43,209	59,505	+16,296
Project Management	•		_			
Office	0	0	0	1,027	1,010	-17
Regional Procurement Offices Fleet Hospital	14,724	15,935	15,702	16,133	17,905	+1,772
Project	5,824	13,214	12,036	12,057	11,192	<u>-865</u>
Total, Procurement Operations	52,051	75,675	73,909	72,426	89,612	+17,186

Activity Group: Procurement Operations (cont'd)

В.	Reconciliation of Increases and Decreases.	

1.	FY 1985 Current Estimate	\$72,426
2.	Pricing Adjustments	1,150
	A. Civilian Personnel Compensation (Direct) (-316) 1) US Direct Hire Pay Adjustment -507 2) Foreign National Direct Hire Pay Adjustment 31	
	3) Other Direct Pricing Adjustment 160 B. Stock Fund (-18) 1) Non-Fuel -18	
	C. Industrial Fund Rates (-468) D. Other Pricing Adjustments (1,952)	
3.	Functional Program Transfers	15,765
	A. Transfers In 1) Inter-Appropriation - Expense/ Investment Criteria Revision - Amounts transferred from Other Procurement, Navy pursuant to the proposed DoD initiative for elimination of \$3 thousand investment threshold and adoption of central management as a governing factor. (15,765) (15,765)	
4.	Program Increases	5,049
	A. Other Program Growth in FY 1986 (5,049) 1) Stock Point Logistics Integrated Communications Environment (SPLICE)— Funds required to download ADP applications onto the SPLICE hardware. These funds will be used for additional disk packs and controllers, memory, etc. along with items needed for the high speed data channel which will be available during the FY 1985/1986 time frame. This contractual effort will be centrally managed. 3,610 2) Expanded Navy Worklaod - Additional end strength and funding are required to perform the contractual workload expansion as we build to a 600-ship Navy. 81	
	3) Contract Management Reviews - Additional end strength and funding are required to perform contract management reviews to allow for improved oversight of Navy contracts.	

Activity Group: Procurement Operations (cont'd)

B. Reconciliation of Increase and Decrease (cont'd).

4) Navy Regional Data Automation Center (NARDAC) Support - Additional resources required to fund services performed by NARDAC, Washington (a NIF activity) in support of ADP programs such as Integrated Disbursing and Accounting - Financial Management System, Integrated Disbursing and Accounting - Resource Management System, System IV and civilian payroll.

5) Logistics Application for Automated Marking and Reading Symbols (LOGMARS) - Resources required for the installation of bar code reading equipment in the receiving and issuing areas at Navy Stock Points.

5. Program Decreases

-4,778

- A. Other Program Decreases in FY 1986 (-4,778)
 - 1) Buy Our Spares Smart (Project 80SS) Reduction in the training required by procurement analysts in the techniques of breaking out contracts to ensure maximum compitition.

-2,837

148

1,183

2) Coventional Ammunition Integrated management System (CAIMS) keduction of contractual support as a result of completion of the CAIMS resystemization effort.

-646

4) Fleet Hospital - Reduction in the level of assembly & integration (A&I) contract effort in FY 1986.

-1,295

o. FY 1986 President's Budget Request

\$89,612

Activity Group: Procurement Operations (Cont'd)

III. Performance Criteria.

	FY 1984	FY 1985	FY 1986
Number of Local Procurement Uffices Provided Technical Direction	833	833	833
Number of Purchase Requests (In Thousans)	83	90	95
Percent of Contracts to be Awarded Competitively	45.8%	56.4%	59.2%
IV. Personnel Summary (End Strength).			

		FY 1984	FY 1985	FY 1986
A.	military	<u>105</u>	113	114
	Officer Enlisted	69 36	78 35	79 35
Ġ.	Civilian	546	<u>571</u>	<u>578</u>
	USDH FNDH	508 38	545 26	552 26

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Command and Administration
Budget Activity: 7 - Central Supply and Maintenance
Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

The mission of the Naval Supply Systems Command Headquarters is to manage and provide technical direction to major logistics subsystems which directly support ships, aircraft, weapon systems, and personnel of the operating forces ashore and afloat. Funds under the Command and Administration activity group finance the operation of the Naval Supply Systems Command Headquarters which manages and provides technical direction to the following logistics subsystems:

- An integrated Navy supply system which is responsible for providing secondary item support Navy-wide to fleet units and shore installations
- A purchasing system which provides Navy-wide support in procuring products and services from commercial suppliers
- A transportation system which is responsible Navy-wide for first and second destination movement of material
- A financial system with Navy-wide responsibility for payroll; operating expense, inventory, and plant property accounting; and disbursing
- A resale system involving the management of the Navy's Commissary and Exchange systems, including the operation of ships' stores, barber snops, laundry facilities afloat, and retail clothing stores
- A publications and printing service which has Navy-wide responsibility for printing requirements
- A food service system with technical responsibility for the food service operations of the Navy.

II. Financial Summary (Dollars in Thousands).

		FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Command	29,766	28,181	28,112	31,756	33,321	+1,565
Total, Command and Administration	29,766	28,181	28,112	31,756	33,321	+1,565

Activity Group: Command and Administration (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY 1985	Current Estimate		\$31,756
2.	Pricing	Adjustments		397
	1) 2) b. Indi	ilian Personnel Compensation (Direct) US Direct Hire Pay Adjustment Other Direct Pricing Adjustment ustrial Fund Rates er Pricing Adjustments	(-407) -526 119 (-6) (810)	
3.	Function	nal Program Transfers		-
4.	Program	Increases		1,642
		Lalization of FY 1985 Increases Logistics Application for Automated Marking and Reading Symbols (LOGMARS) Staffing - Annualization of resources required for the overall management of the LOGMARS program to ensure the improvement of inventory data collection.	(37) 37	
	B. Other	er Program Growtn in FY 1986 Funding for a classified project.	(1,605) 1,605	
5.	Program	becreases	1,003	-474
	A. Othe	er Program Decreases in FY 1986 Project BUSS (Buy Uur Spares Smart) - Reduced requirements for Project BUSS at the Head-	(-474)	
	2)	quarters level. Reduction in contractual services	-36 -438	
6.	FY 1986	President's Budget Request		\$33,321

Activity Group: Command and Administration (Cont'd)

III. Performance Criteria.

Program Output	FY 1984	FY 1985	FY 1986
Number of Field Activities Managed	165	169	170
Number of Civilian Personnel Managed	24,813	25,627	25,438
IV Personnel Summary (Fnd S	tranath)		

		<u>FY 1984</u>	FY 1985	FY 1986
A.	Military	79	80	80
	ufficer Enlisted	70 9	71 9	71 9
в.	Civilian	383	355	355
	USDH	383	355	355

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Field Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

Field Operations under the Naval Supply Systems Command provide for the management of Navy material transportation, for the centralized management of the Navy's food service program, and for the overall management of Navy fuel operations worldwide.

Funds under this activity group finance the operation of the following activities: the Naval Material Transportation Office, the Navy Food Service Systems Office, and the Navy Petroleum Office. Beginning in FY 1985, this activity group also includes finances for the operation of Operational Support-Field transferred from Command and Administration in accordance with DOD Instruction 5100.73.

This program finances the salaries, administrative expenses and travel of personnel who are engaged in certain transportation, physical distribution, and security management functions for the field activities.

II. Financial Summary (Dollars in Thousands).

		FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Miscellaneous Field Operations	o,532	6,316	6,269	6,411	6,516	+105
Operational Support- Field	0	0	0	1,027	1,002	<u>-25</u>
Total, Field Operations	6,532	6,316	6,269	7,438	7,518	+80

Activity Group: Field Operations (cont'd)

B. <u>F</u>	econciliation of Increases and Decreases.	
1.	FY 1985 Current Estimate	\$7,438
2.	Pricing Adjustments	-58
		-120) -170 -50
	B. Industrial Fund Rates C. Other Pricing Adjustments	(-8) (70)
	• •	(70)
3.	Functional Program Transfers	-
4.	Program Increases	216
	A. Other Program Growth in FY 1986 1) Transportation Operational Personal Property Standard System (TOPS) - Funds will provide for the development of an operational, multi-service system which will automate and standardize	(216)
	the DOD personal property movement and storage program. 2) Physical Security - Staffing to manage the implementation of programs to increase the level of security at shore activities	200 e
	of the Naval Supply Systems Command.	16
5.	Program Decreases	-78
	A. Other Program Decreases in FY 1986 1) Reduction in various non-labor expenses such as supplies, equipment, and	(-78)
	printing/reproduction costs.	-78
c	EV 150% Descident's Rudget Regulart	\$7,518

Activity Group: Field Operations (cont'd)

III. <u>Performance Criteria</u>.

	FY 1984	FY 1985	FY 1986
Number of food service locations managed	670	680	680
Number of fuel facilities for which technical guidance is provided	115	115	115

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
Á.	Military	35	<u>11</u>	11
	Officer Enlisted	35 0	8 3	8
в.	Civilian	226	211	212
	USDH	226	211	212

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Servicewide Transportation

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

The Servicewide Transportation (SWT) program provides funding for the majority of the Navy's worldwide cargo movements. This includes first destination transportation (FDT), second destination transportation (SDT). and continental United States terminal services in conjunction with first and second destination transportation. First destination transportation costs are associated with the movement of material, after purchase by procurement and other appropriations on a Free-On-Board origin basis, from the contractors' facilities to the first point of use or storage. The program also provides financing for the worldwide second destination movement of regular and emergency readiness material including ammunitions, chemicals, medicine, subsistence, mail, repair parts, and high value repairable items.

The SWT program finances the purchase of transportation services predominantly from DOD industrially-funded transportation activities, the Hilitary Airlift Command (MAC), the Military Sealift Command (MSC), and the Military Traffic Management Command (MTMC). In addition, SWT purchases transportation services from private sector firms. These include aircraft, truck, rail, bus, barge and freight forwarding services.

It should be emphasized that this is a wavy-wide program. The volume of the program is driven by a variety of factors, most significantly the operating tempo and readiness requirements of the fleet and the level of deliverables from programmed procurements.

II. Financial Summary (Dollars in Thousands).

			FY 1985		FY 1986	
Servicewide	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Transportation	442,321	410,385	407,385	406,233	394,760	-11,473
Total, Servicewi Transportation	de 442,321	410,385	407,365	406,233	394,760	-11,473

В.	Reconciliation	of	Increases	and	Decreases.

1. FY 1985 Current Estimate		\$406,233
2. Pricing Adjustments		-6,341
A. Industrial Fund Rates	(-12,862)	
B. Other Pricing Adjustments	(6,521)	
3. Functional Program Transfers		-405
A. Transfers Out 1) Inter-Appropriation - Transfer of First Destination funds to	(-405)	
RDT&E,N.	-405	
4. Program Increases		7,923
A. Other Program Growth in FY 1986 1) Increased transportation requirements in support of scheduled replacement and outfitting of Civil Engineering Support Equipment (CESE) and Civil Engineering End Items (CEEI) as reflected in the OPN B.A. 5 Budget Request as well as some subsequent second destination movements. Modal distribution: MSC 7,409 measurement tons; MTMC 6,449 measurement tons; Inland 18,674 short tons. 2) Increased second destination requirements supporting increases in ships (+2.8% over FY85), aircraft (+.7% over FY85), military personnel (+2.6 % over FY85), and flying hours (+5.6% over FY85). Modal distribution is: MAC 70% short tons: MSC	(7,923) 4,127	
tion is: MAC 709 short tons; MSC 7,360 measurement tons; MTMC 4,691 measurement tons; and Inland 4,046 short tons. 3) Increased transportation requirements associated with the delivery of Harrier engines. Procurement sources include overseas contractors. Modal distribution: MAC 110 short tons; Inland 934 short tons; MSC 282 measurement tons; MTMC 282 measurement tons; QUICKTRANS 222 short tons.	2,880 587	

- B. Reconciliation of Increases and Decreases (cont'd).
 - 4) Increased transportation requirements in support of planned increases for overseas commissary stores and Navy Exchanges. Modal distribution: MSC 2,400 measurement tons; MTMC 2,400 measurement tons.

329

5. Program Decreases

-12,650

	•	
A.	One-Time FY 1985 Costs	(-821)
	 Transportation requirements to support the TA-7C re-engine program completed in FY 1985. Modal distribution: Inland -1,341 snort tons. Transportation requirements to move 	-360
	conventional ammunition within the United Kingdom completed during FY85. Modal distribution: Inland -1,011 short tons.	-261
	3) Transportation requirements to move	

pleted in FY85. Modal distribution: Inland -1,534 short tons. -200

(-11,829)B. Other Program Decreases in FY 1986

1) Reduced transportation requirements for premium airlift movements of aircraft engines for resupply. Modal distribution: MAC -2,195 snort tons; QUICKTRANS -289 short tons.

-6,066

2) Servicewide Transportation is responsible for the movement of repair items for the F/A-18 program with FY 1986 representing the second year's operations. Planned transportation economies result in repricing. Modal distribution: MAC -277 short tons; Inland -2,723 short tons; QUICKTRANS -625 short tons.

-1,444

3) Reduced transportation requirements for the movement or miscellaneous equipment and material procured by the Naval Facilities Engineering Command with OPN funds. Modal distribution: Inland -5,300 short tons.

-1,023

B. Reconciliation of Increases and Decreases (cont'd).

		-
4)	Reduced transportation requirements	
	to support deliveries of Aircraft	
	Procurement, Navy; Shipbuilding and	
	Conversion, Navy; Weapons Procurement,	
	Navy; and Other Procurement, Navy	
	materials. Modal distribution: MAC	
	-28 short tons; MSC -2,322 measure-	
	ment tons; Inland -5,608 short tons;	
	MTMC -794 measurement tons.	-1,372
5)	Reduced transportation requirements	•
_	for the movement of materials to	
	upgrade Underwater Range in St. Croix.	
	Modal distribution: MSC -4,354	
	measurement tons; MTMC -4,354	
	measurement tons.	-710
6)	Reduced Transportation requirements	
	for Project Tent Camp PACKUP. Tent	
	camps are used as temporary berthing	
	facilities for an entire Construction	
	Battalion (approximately 750 persons)	
	when deployed for a military construc-	
	tion project (Costs continue into	
	outyears). Modal distribution:	
	MSC -2,610 measurement tons; MTMC	
	-2,610 measurement tons.	-514
7)	Reduced transportation require-	
•	ments for movement of ASW Opera-	
	tional equipment. Modal	
	distribution: MAC -100 short	
	tons; Inland -75 short tons.	-277
ಕ)	Reduced transportation requirements	
_	to move TOMAHAWK All-Up-Rounds plus	
	component parts and empty containers.	
	Modal distribution: MAC -5 short	
	tons; Inland -166 short tons;	
	QUICKTRANS -284 short tons.	-247
9)	Reduced transportation require-	
	ments for the movement of Fleet	
	Ballistic Missiles and Strategic	
	Weapons Systems materials. Modal	
	distribution: Inland -839 short tons.	-127
10)	Reduced transportation requirements	
-	for movement of Sound Surveillance	
	System (SOSUS). Modal distribution:	
	MAC -8 short tons; Inland -8 short	
	tons.	-26

- B. Reconciliation of Increases and Decreases (cont'd).
 - 11) Reduced transportation requirements for the movement of electronic equipment vans. Modal distribution: MSC -115 measurement tons; Inland -90 short tons; MTMC -115 measurement tons. -23
 - 6. FY 1986 President's Budget Request

\$394,760

III. Performance Criteria.

See Attachment A.

IV. Personnel Summary.

There are no military or civilian personnel associated with this activity group.

	PROGRAM DATA	FY 1984	984	FY 1585	985	FY 1986	986
		UNITS	\$000	UNITS	2000	UNITS	2000
	First Destination Transportation						
	by Mode of Shipment:						
	Military Airlift Command						
	Kegular						
	Channel (ST)	4,105	8,777	4,320	8.870	4.318	7.298
	SAAM (Flying Hours)	426	1,656	426	1,540	422	1,277
	LOGAIR (ST)		. •			!	,
	Military Sealift Command						
	Regular						
	Routes (MT)	66,218	12,393	38.065	8.352	85,300	9,708
	Per Diem (SO)	•	. '	•	•	•	}
	Military Traffic						
	Management Command						
	Port						
	Handling (MT)	40,915	2,296	55,277	3,508	52,480	2,689
	Commercial		•	•	•	•	•
,	Air (ST)	4,243	2,677	4,387	2,808	4.462	3,000
7	Surface (ST)	206,217	26,788	225,890	29,432	229,721	31,197
7							
ッ	TOTAL		54,587		54,510		55,169
•							

Attachment A Page 1 of 3

PROGRAM DATA	FY 1984 UNITS	84 \$000	FY 1985 UNITS	85 \$000	FY 1986 UNITS	\$000 \$000
Second Destination Transportation by Mode of Shipment: Military Airlift Command						
Regular Channel (ST) SAAM (Flying Hours) LOGAIR (ST) Military Sealift Command	60,339 1,952	128,407 7,456	65,119 2,085	128,460 7,372	63,326 2,085	100,439 6,150
Regular Routes (MT) Per Diem (SD) Military Traffic Management Command	639,806 665	110,017 3,7,5	938,953 665	66,743 8,336	95u,368 665	82,863 8,694
Port Handling (MT)	464,212	19,450	504,693	21,402	513,440	17,937
Commercial Air (ST) Surface (ST)	43,925 472,614	56,496 58,193	39,042 499,21 <i>7</i>	55,786 63,624	38,060 496,284	57,934 65,568
TOTAL		387,734		351,723		339,591
Total First and Second Destination Transportation		442,321		406,233		394,760

Attachment A Page 2 of 3

PROGRAM DATA	FY 1584	584	FY 198	iΩ	FY 1986	986
	UNITS	\$000	UNITS	2000	UNITS	2000
Second Destination Transportation						
Cargo (ST)	569,866	194,958	595,914	196,679	590,106	173,453
	735,788	65,520	815,075	49,105	820,248	52,882
(SS)	999	7,715	665	8,336	665	8,694
(Flying Hours)	1,952	7,456	2,085	7,372	2,085	6,156
Commissaries (MT)	227,609	21,637	249,480	15,498	254,156	16,350
Base Exchanges (MT)	228,877	28,866	254,273	16,817	257,113	21,183
Subsistence (ST)	894	1,902	996	3,906	936	1,479
(MT)	97,652	11,660	109,250	7,645	110,546	9,064
Overseas Mail:						
Surface (MT)	14,092	1,784	15,569	1,081	15,705	1,320
Air (ST)	6,119	46,236	6,498	49,284	6,568	49,010
TOTAL		387,734		351,723		339,591

Attacmment A Page 5 of 3

Department of the Navy Uperation & Maintenance, Navy Exhibit OP-5

Activity Group: ketail Sales Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

The Retail Sales Operations Activity Group contains two subactivity groups - Lommissary Operations and Retail Clothing Stores/Ships' Stores Afloat. The mission of the Navy's Commissary Operations is to provide authorized resale items for sale to authorized commissary store patrons at the lowest practicable price in a facility designed and operated similar to the standards used in commercial food stores. Retail Clothing Stores provide a convenient and reliable source from which authorized personnel may obtain government-procured articles of uniform clothing and related items. Ships' Stores Afloat provide a convenient and reliable source from which personnel award ships may obtain articles and services for their health and comfort. Retail Operations provides funding for the operation of commissary stores world wide, regional distribution centers, and management organizations. The budget provides for the opening of three new commissary stores in FY 1985 and one store in FY 1986 to further support member families.

Savings realized by member families purchasing goods from commissaries are a vital incentive for the retention of service members and could even be considered part of the enlistment contract. The commissary privilege is very important to enlisted personnel, especially to the E-4 through E-6 ranks, and junior officers.

Retail Clothing Stores/Snips' Stores Afloat provides for reimbursement to Navy exchanges and the Navy Resale and Services Support Office (NAVRESSO) for staff services expended in support of government-procured articles of uniforms at Navy exchanges. In addition, funding within this program provides reimburement to NAVRESSO which exercises technical control over this program and provides staff services in support of the operations of the program.

II. Financial Summary (Vollars in Thousands).

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Commissary Operation Retail Clothing Stor		74,750	74,229	77,034	82,011	+4,977
Snips' Stores	6,511	7,726	6,900	5,200	5,651	+ 451
Total, Retail Sale Uperations	79,231	82,476	81,129	82,234	87,662	+5,428

Activity Group: Retail Sales Operations (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY 198	5 Current Estimate		\$82,234
2.	Pricing	g Adjustments		-37
	3) B. St.	Foreign National Direct Hire Pay Adjustment	(-829) -2,034 115 1,090 (-10) -10 (802)	
3.	Functi	onal Program Transfers		-
4.	Progra	a Increases		5,526
	A. An	nualization of FY 1985 Increases Funding is required for full year operations of commissary stores at Imperial Beach, CA, King's Bay, GA, and Nea Makri, Greece opening	(3,317)	
		during FY 1985.	3,317	
		her Program Growth in FY 1986 Civilian Substitution at Commissary Stores (CIVSUB) - Civilian end strength and funding are required to provide executive management in commissary stores and regional offices to offset	(2,209)	
	2)	reductions in officer allowances. L-1 Store Renovation - Funding required to provide for the major renovation of uniform stores at Navy Exchanges. Appropriated fund authorit is required to cover the costs of facilities improvement of the government issue portion of Naval Uniform		
	3)	Centers. New Commissary Store - Resources are required to open a new commissary store at Murhy Canyon CA. Funds for construction are being provided by the Commissary	389	
		Store Revolving Trust Fund.	269	

Activity Group: Retail Sales Operations (cont'd)

B. Reconciliation of Increases and Decreases (cont'd).

5.	5. Program Decreases				-61	
		er Program Decrease i Efficiency Review Sa as the result of com efficiency reviews s conducted under the	vings - Savings pletion of imilar to those			
Activities (CA) program40 2) Commercial Activities - Adjustments for commissary store functions des- ignated for contracting out under the				- 		
		CA program.	and the same of	-21		
6.	FY 1986	President's Budget R	equest		\$87,662	
III.	Perform	ance Criteria.	FY 1984	FY 1985	FY 1986	
Average System-wide Commissary Store Operating Hours Per Week 41.9 41.9 42.7						
See Attachment A for additional performance criteria						

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military	1,528	1,318	1,275
	Officer Enlisted	89 1,439	83 1,235	37 1,238
в.	Civilian	2,519	2,816	3,057
	USDH FNDH FNIH	2,216 209 94	2,479 222 115	2,720 222 115

Department of Navy
FY 1986 President's Budget
Commissary Operations (Retail)
(Dollars in Thousands)

		FY 1984	84		FY 1985			FY 1986	
	CONUS	Over- Seas	Total	CONUS	Over- Seas	Total	CONUS	Over- Seas	Total
Number of Stores Domestic Stores Foreign Stores Total	57 -0- 57	19 22	60 19 79	35 - 85 - 85	3 19 22	61 80	99 - 09	3 20 23	63 20 83
Gross Yearly Sales (000's) Domestic Stores Foreign Stores Total	666,146 -0- 666,146	60,531 86,018 146,549	726,677 86,018 812,695	664,261 -0- 664,261	60,132 89,445 149,577	724,393 89,445 813,838	731,601 -0- 731,601	64,095 95,341 159,436	795,696 95,341 891,037
Appropriated Fund Support Operation and Maintenance (000's):									
	43,893	4,579 1,573 1,345	48,472 1,573 1,345	47,321	4,958 1,673 1,509	52,279 1,673 1,509	50,170 -0-	5,461 1,909 1,637	55,631 1,909 1,637
transportation to overseas stores)	71	55 14	72	44 275	131	175 302	42 274	123 28	165 302
1 Other Purchased Services Commissary Operations	12,916 57,245	7,882 15,475	20,798 72,720	13,079 60,719	8,017 16,315	21,096 77,034	13,867 64,353	8,500 17,658	22,367 82,011
Military Personnel	21,411	5,455	56,866	29,183	7,182	36,365	26,733	6,767	33,500
Subtotal Operating Costs (excluding overseas transportation costs)	78,656	20,930	983,686	89,902	23,497	113,399	91,086	24,425	115,511
Costs of Transportation to Overseas Stores	1	21,637	21,637	ı	13,498	13,498	1	16,350	16,350
Total Appropriated Fund Support	78,656	42,567	121,223	89,902	36,995	126,897	980,16	40,775	131,861
							Attachment Page 1 of	ment A of 2	

Attachment A Page 2 of 2

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Maintenance of keal Property

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

This program provides for the maintenance, repair, and minor construction of all public works, buildings, structures, grounds, and utility systems required at the Naval Supply Systems Command's field activities. The two major elements of this program are:

- * Maintenance and Repair of Real Property finances scheduled, day-to-day recurring maintenance, and emergency service work needed to preserve facilities.
- * Minor construction finances the erection, installation or asssembly of real property facilities; the addition, extension, alteration, conversion or replacement of existing real property facilities; the relocation of real property facilities; and the installation of equipment which is made part of a facility.

II. Financial Summary (Dollars in Thousands).

		FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Maintenance & Repair of Real Property	19,969	25,909	25,756	23,094	22,323	-771
Minor Construction	2,583	429	428	2,435	1,914	-521
Total, Maintenance of Real Property	22,552	26,338	26,184	25,529	24,237	-1,292

Activity Group: Maintenance of Real Property (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY 1985 Current Estimate	\$25,529	
2.	Pricing Adjustments		624
	A. Civilian Personnel Compensation (Direct) 1) US Direct Hire Pay Adjustment 2) Other Direct Pricing Adjustment B. Stock Fund 1) Non-Fuel C. Industrial Fund Rates D. Other Pricing Adjustments	(-98) -220 122 (-53) -53 (341) (434)	
3.	Functional Program Transfers		-94
	A. Transfers Out 1) Transfer of subsistence storage activity at Alameda (NSC Oakland)	(-94)	
	to the Defense Logistics Agency	-94	
4.	Program Increases		-
5.	Program Decreases		-1,822
	A. Other Program Decreases in FY 1986	(-1,822)	
	 Decreased level of facilities maintenance and repair 	-1,822	
6.	FY 1986 President's Budget Request		\$24,237

Activity Group: Maintenance of Real Property (cont'd)

III. Performance Criteria.

	FY 1984	FY 1985	FY 1986
Maintenance of Real Proper	<u>rty</u>		
Backlog, Maint/Repair	91,455	96,080	100,703
Total Buildings (KSF)	41,069	41,084	41,169
IV. Personnel Summary (End St	trength).		
• .	FY 1984	FY 1985	FY 1986
B. <u>Civilian</u>	250	250	250
USDH	250	250	250

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Base Operations, Other

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (NAVSUP)

I. Description of Operations Financed.

This program provides the base support services and material required at field activities under the command of the Naval Supply Systems Command to allow assigned forces and tenants to perform their mission.

The major elements of this program are:

<u>Base Communications</u> - provides for administrative telephones, telecommunications centers, industrial security networks, and paging networks.

<u>Utility Operations</u> - Includes operating expenses for purchased <u>electricity</u>, <u>electricity</u> generating plants, purchased steam and hot water, heat plants, utility distribution systems, waste systems, air conditioning and refrigeration plants.

<u>Personnel Operations</u> - Support required for personnel-related functions to Include expenses for:

- -Other Personnel Support provides for mess halls, sales activities, laundry and dry cleaning facilities.
- -Morale, Welfare and Recreation provides authorized appropriated fund support for shore-based recreation activities.

Base Operations - Mission - Support for those Base Operations functions which are required in direct support of the mission of the base. Expenses are included for the following functions:

- -Retail Supply Operations This item funds the management associated with the movement of personal property and assistance rendered to service members in their permanent change of station moves.
- -Maintenance of Installation Equipment provides for maintenance of major shore-based equipment including: service and miscellaneous craft, construction equipment (non-deployable), weapons, electronics, electronic engineering, and fleet moorings.
- -Other Base Services Includes expenses for miscellaneous base support functions (other than Public Works functions) not otherwise included in other functional categories. Typical of such expenses are those incurred by the administrative transportation activities (including motorpools) and security.

Base Operations - Ownership - Support required at shore bases regardless of type of mission being performed which must be sustained to have a functioning base. Expenses are included for the following functions:

- -Other Engineering Support Public Works Department administration, engineering services, custodial services, refuse/garbage collection and disposal, snow removal, rental and leasing of real property, and fire protection and firefighting for Naval Supply Systems Command activities and their tenants.
- -Administration provides support related financial/resource management, civilian manpower management, and maintaining military personnel records.
- -Automated Data Processing provides analysis programming, equipment rental, operations and maintenance, contractual services and supplies.
- -<u>Hazardous Waste Material Handling</u> includes personnel, supplies and training associated with the identification and disposal of hazardous wastes.
- -Audiovisual provides supplies and services required for audiovisual support.

II. Financial Summary (Dollars in Thousands).

			FY 1985		FY 1986	
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Base Communications	10,926	7,036	6,527	10,826	11,585	+759
Utility Operations	20,884	21,908	21,593	21,764	20,898	-866
Personnel Operations	549	552	536	392	464	+72
Other Personnel Services Morale, Welfare & Recreati	(313) on (236)	(552) (-)	(536) (-)	(200) (192)	(269) (195)	(+69) (+3)
Base Operations - Mission	23,023	19,501	18,911	23,908	23,017	-891
Retail Supply Operations Maintenance of	(5,761)	(4,100)	(3,947)	(6,521)	(6,240)	(-281)
Installation Equipment Other Base Services	(762) (16,500)	(2,500) (12,901)	(2,364) (12,600)	(2,383) (15,004)	(2,410) (14,367)	(+27) (-637)
Base Operations - Ownership	79,940	61,062	59,462	83,251	79,245	-4,006
Other Engineering Support Administration Automated Data Processing Hazardous Waste Audiovisual	(15,179) (63,677) (279) (328) (477)	(13,660) (47,244) (158) (-)	(13,357) (45,951) (154) (-)	(15,827) (65,966) (294) (371) (793)	(15,483) (62,206) (295) (367) (894)	(-344) (-3,760) (+1) (-4) (+101)
Total. Base Operating Suppo	rt 135.322	110,059	107,029	140,141	135,209	-4,932

	ECUI	Ciliation of Increases and Decreases.	
1.	FY	1985 Current Estimate	\$140,141
2.	Pri	cing Adjustments	966
	A.	Civilian Personnel Compensation (Direct) (-1,603) 1) US Direct Hire Pay Adjustment -2,341 2) Other Direct Pricing Adjustment 738	
	В.	Stock Fund (-282) 1) Fuel -240	
	C	2) Non-Fuel -42 Industrial Fund Rates (266)	
		Other Pricing Adjustments (2,585)	
3.	Fun	ctional Program Transfers	-460
	A.	Transfers In (122)	
		 Intra-Appropriation - Unaccompanied enlisted personnel functional transfer. 77 	
		2) Inter-Appropriation - Consolidation	
		of booking office from Travis AFB to	
		Naval Supply Center, Oakland. 45	
	В.	Transfers Out (-582)	
		1) Intra-Appropriation - Transfer of Authorized Accounting Activity (AAA)	
		function for Commissary Store, Nea Makri,	
		Greece from Naval Supply Center, Norfolk	
		to Naval Station, Rota, Spain11 2) Intra-Appropriation - Transfer of the	
		subsistence storage activity at Alameda	
		(NSC Oakland) to DLA443	
		3) Intra-Appropriation - Transfer of on-	
		site examination from Naval Supply Center, Oakland to the Fleet Accounting	
		and Disbursing Center, Pacific128	
4.	Pro	gram Increases	215
	A.	Other Program Growth in FY 1986 (215)	
		1) Increased utilities as a result of	
		automated warehouse operations	
		under the Navy Integrated Storage Tracking and Retrieval System. 215	
		Harring and very lead 33 prem.	

B. Reconciliation of Increases and Decreases (cont'd).

5.	Pr	ogram Decreases		-5,653
	A.	Other Program Decreases in FY 1986 1) Decreased utilities costs due to lower energy costs and energy	(-5,653)	
		conservation measures. 2) Decreased use of temporaries	-450	
		in accounting and bill paying functions.	-5.203	

6. FY 1986 President's Budget Request

\$135,209

III.	Performance Criteria.			
****	reriormance di recita.	FY 1984	FY 1985	FY 1986
	Base Operations (\$000)	135,322	140,141	135,209
	Operation of Utilities (\$000) Total Energy Consumed (MBTUs) Total Non-Energy Consumed (K Gal	20,884 3,414,344 s) 910,974	21,764 3,513,899 910,974	20,898 3,572,386 910,974
	Base Communications (\$000) Number of Instruments Number of Mainelines Daily Average Message Traffic	10,926 21,228 14,453 6,857	10,826 21,228 14,453 6,857	11,585 21,228 14,453 6,857
	Personal Operations (\$000)	549	392	464
	Other Personnel Support (\$000) Population Served, Total (Military, E/S) (Civilian, E/S)	313 4,900 1,300 3,600	200 4,900 1,300 3,600	269 4,900 1,300 3,600
	Morale, Welfare & Red (\$000)	236	192	195
	Base OperationsMission (\$000) Retail Supply Oper (\$000) Line Items Carried (000) Receipts (000) Issues (000)	23,023 5,761 2,328 4,249 5,467	23,908 6,521 2,328 4,249 5,467	23,017 6,240 2,328 4,249 5,467
	Maint of Instal Equip (\$000) Other Base Services (\$000) No. of Motor Vehicles, Total (Owned) (Leased)	762 16,500 1,556 1,108 448	2,383 15,004 1,556 1,108 448	2,410 14,367 1,556 1,108 448

B. Reconciliation of Increases and Decreases (cont'd).

III. Performance Criteria (cont'd).

Ownership Operations (\$000)	78,856 15,179	81,793 15,827	77,689 15,483
Other Engineering Sup (\$000) Administration (\$000)	63,677	65,966	62,206
Number of Bases, Total	63	63	63
(CONUS)	62	62	62
(0/0/00)	. 1	3	3

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	<u>Military</u>	4	4	4
	Officer	4	4	4
В.	Civilian	2,728	2,752	2,754
	USDH	2,728	2,752	2,754

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Command and Administration

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Facilities Engineering Command)

I. Description of Operations Financed

These funds provide for salaries and related support costs of the engineers, technicians and administrative personnel in the Headquarters of the Naval Facilities Engineering Command (except for the execution of Military Construction), whose mission includes facilities and base planning; administration of Navy real estate; engineering and management support for acquisition of facilities (i.e., MILCON, including design, construction and inspection), utilities systems, and civil engineering support equipment; management of Navy family housing; administration of the Navy Environmental Protection Program; support of ocean engineering; technical support of the Naval Construction Force and other fleet units; public works support for major naval complexes executed by the Public Works Centers; and research and development related to all of the above. The personnel provide for the command and control of the field activities of the Command, as well as the programming, budgeting and financial management support for those appropriations for which the Command is responsible.

II. Financial Summary (Dollars in Thousands).

	FY 1985				FY 1986	
	FY 1984	Budget Request	Appro- pristion	Current Estimate	Budget Request	Change
Command/ Administration	17,512	16,765	16,645	17,869	17,663	-206

Activity Group: Command and Administration (cont'd)

В.	Reconciliation	of	Increase	and	Decreases.

6. FY 1986 President's Budget Request

1.	FY 1985 Current Estimate		\$17,869
2.	Pricing Adjustments		-373
	A. Civilian Personnel Compensation (Direct) 1) U.S. Direct Hire Pay Adjustment 2) Other Direct Pricing Adjustments	(-439) -571 132	
	B. Industrial Fund	(-5)	
	C. Other Pricing Adjustments	(71)	
3.	Functional Program Transfers		
4.	Program Increases		167
	A. Other Program Growth in FY 1986 1) Increased support for technical engineering services provided	(167)	
	to Navy activities world-wide.	167	
5.	Program Decreases		

\$17,663

III. Performance Criteria.

	FY 1984	FY 1985	FY 1986
Number of field activities provided management support	21	21	21
Total civilians supported	21,627	21,393	21,145
Total military supported	1,079	1,163	1,204
Total funds (from all sources- \$ in billions)	5.2	5.5	6.2

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military End Strength	<u>52</u>	<u>52</u>	. <u>52</u>
	Officer Enlisted	45 7	44 8	44 8
В.	Civilian End Strength	344	<u>369</u>	369
	USDH	344	369	369

Department of the Navy Operation & Maintenance Exhibit OP-5

Activity Group: Field Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Facilities Engineering Command)

I. Description of Operations Financed

Field Operations include the personnel and related support costs for the Engineering Field Divisions (except for the execution of Military Construction) and the Naval Energy and Environmental Support Activity of the Naval Facilities Engineering Command. The Engineering Field Divisions are responsible for providing support to the operating forces of the Navy, the Marine Corps, and components of the Naval Material Command, in regard to shore facilities and related material and equipment, including the planning, design and construction of public works, public utilities, and special facilities for the Navy (e. g., communication facilities, runways, piers, hospitals, personnel support facilities); acquiring and disposing of Navy real estate; providing technical advice and assistance on the maintenance of facilities and operation of utilities; directing and administering family housing at assigned field installations and providing technical and engineering advice and assistance; administering the assignment, replacement, maintenance and disposal of transportation equipment (passenger vehicles, trucks, trailers, construction, firefighting and weight handling equipment); assisting and advising activities in the application of the technical programs assigned to the Naval Facilities Engineering Command; and providing facilities engineering assistance to those naval commands for which Engineering Field Divisions have been designated the principal staff advisor.

The Naval Energy and Environmental Support Activity is responsible for providing environmental protection and energy conservation support to Naval Commands. Its mission is to support: (1) the Naval Environmental Protection Support Service (NEPSS), which provides: Navy-wide environmental data management with an ADP capability, specialized air emission test teams, wastewater and potable water experts, a hazardous material/waste management and investigation team; and ship sewage and oily waste disposal experts; (2) energy conservation management; energy data management; and specialized engineering field assistance on industrial energy conservation surveys, heating and power plant optimization, and energy training; and (3) technical assistance and engineering management of procurement, overhaul and utilization of Mobile Utility Support Equipment (MUSE).

The Environmental Restoration Program represents an ongoing but newly reorganized environmental rehabilitation effort, designed to enhance the priority status and visibility of the program. FY 1984 and FY 1985 funding is provided through a separate DOD appropriation. Subsequent funding will be incorporated in the O&M,N appropriation. Funding supports:

I. Description of Operations Financed (cont'd)

- 1. Installation Restoration Program. This is a comprehensive, multi-phase program to identify, investigate, confirm, and clean up contamination from hazardous substances and wastes on active installations. Specific projects include Initial Assessment Studies (IAS), Confirmation Studies (CS), goundwater monitoring projects and remedial measures.
- 2. Building Demolition and Debris Removal Program. The purpose is to plan and execute a comprehensive program to demolish and remove unsafe, unsightly, and hazardous buildings and structures on active Navy and Marine Corps installations.
- 3. Other Hazardous Waste Disposal Operations. These include studies and the purchase of hardware to reduce hazardous waste generation, as well as one-time waste permit costs required under the Resource Conservation and Recovery Act.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout

		FY 1985		FY 1986		
	FY 1984	Budget Request	Appro- pristion	Current Estimate	Budget Request	Change
Engineering field Divisions	51,092	56,106	55,036	54,777	51,183	-3,594
Navy Energy/ Environ Spt Act	3,558	3,396	3,366	3,417	3,397	-20
Environmental Restoration	-0-	40,200	-0-	-0-	42,906	42,906
Total Field Operations	54,650	99,702	58,402	58,194	97,486	39, 292
(Environmental Restoration						
Defense)	(15,529)	-	(31,300)	(37,725)	-	(-37, 725)

^{*} FY 1984 and FY 1985 execution under the separate Environmental Restoration, Defense Appropriation (ERDA). Figures shown for information only.

B. Reconciliation of Increases and Decreases.(cont'd)

1.	FY	1985 Cu	rrent Estimate		\$ 58,194
2.	Pri	ing Ad	ju stme nts		-554
	A.	1) U.	an Personnel Compensation (Direct) S Direct Hire Pay Adjustments her Hiring Adjustments	(-1,158) -1,575 417	
	В.	Indust	rial Fund Rates	(17)	
	c.	Other !	Pricing Adjustments	(587)	
3.	Func	tional	Program Transfers		42,101
	A.	1) In	ter-Appropriation: Transfer Environmental Restoration	(42,906)	
			ogram from Environmental Restoration, fense Appropriation (ERDA).	42,906	
	в.	Transf		(-805)	
		of	tra-Appropriation: Transfer Administrative Telephone functions om NAVFAC to NAVTELCOM.	-805	
4.	Pro	gram De	crease		-2,255
	A.	Other	Program Decreases in FY 1986	(-2,255)	
		su es	crease in contracted technical pport for all Naval activities pecially for energy and utilities stem studies.	-2,255	
5.	FY	1986 Pr	esident's Budget Request		\$ 97,486

Activ	ity Group: Field Operations (cont'd)			
III.	Performance Criteria. (\$000)	FY 1984	FY 1985	FY 1986
A.	Facilities and Base planning: Master planning and special studies related to facilities base requirements and utilization.	9,638	10,577	10,128
в.	Administration of Navy Real Estate effort related to acquisisiton, disposal and leasing of real estate.	3,321	3,706	3,627
c.	Utilities, Transportation and Other Facilities: Engineering and managment support to major claimants in relation to all Naval Shore Facilities. Review audits and validate requirements for Civil Engineering Support and Weight Handling Equipment.	23,689	25,987	23,924
D.	Management of Family Housing: Oversees the complete planning, construction and management of Navy Family Housing.	1,739	1,993	1,912
E.	Administration of Navy Environmental Protection Program: Validate, develop and implement projects to correct pollution problems.	1,409	1,464	1,411
F.	Energy Engineering: This program provides the resources required to improve the energy efficiency of the shore establishment leading to a 20 percent reduction in energy use by 1985. Execution of the program is primarily through contractual effort.	11,816	11,663	10,714
G.	Pollution Abatement: Performance of air emission testing and hazardous waste investigations. Central managment of the environmental data system and dissemination of technical and managerial	2,405	2,295	2,340

guidance.

Activity Group: Field Operations(cont'd)						
III.	Per	formance Criteria. (\$000) (cont'd)				
н.	Equ ass	ile Utility Support ipment: Provides for the ignment, inspection, procurement other technical management of MUSE.	633	509	524	
ı.	Fac eff	rironmental Restoration Program: ilitates centralized execution of Navy orts in the area of environmental tection.	-	-	42,906	
		TOTAL	54,650	58,194	97,486	
IV.	Pers	onnel Summary (End Strength.				
			FY 1984	FY 1985	FY 1986	
	A.	Military	469	<u>587</u>	617	
		Officer Enlisted	430 39	528 59	529 88	
	В.	Civilian UDSH	$\frac{1248}{1248}$	1257 1257	1253 1253	

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Logistics Support Services

Program Budget Activity: 7 Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Facilities Engineering Command)

I. Description of Operations Financed

Funding supports shore facilities and fleet support programs which are the responsibility of the Naval Facilities Engineering Command and include: a) Collateral Equipment Program which provides centralized funding for collateral equipment required to initially outfit new military construction at naval activities throughout the shore establishment; b) Engineering Investigations Program which provides engineering investigations, feasibility studies and surveys for more than 700 naval activities; c) Inspection of Radio Towers Program provides direct support to the fleet through structural inspection of radio towers; d) Soil Conservation and Natural Resources Program provides technical assistance to improve erosion control and conservation; e) Planning Studies Program provides architectural and engineering services and studies, computer support, mapping support and specialized industrial support studies; f) Pollution Abatement Program identifies pollution abatement deficiencies, develops technical solutions and provides technical assistance to all Navy field activities to comply with various public laws; g) Federal Military Standards and Specifications Program provides for development, review, conversion, consultation and publication of federal and military specifications; h) Fleet Moorings Program provides for the installation, relocation, inspection, maintenance and repair of moorings; i) the Ocean Facilities Program provides for the maintenance, repair and overhaul of specialized ocean construction equipment; and j) Materials technology, which consists of (1) Base Engineering Support Technical (BEST) Program which provides software development and training for a management information system for all larger Naval Public Works Departments to improve workload scheduling, personnel utilization, and cost estimating; (2) Chemical, Biological, and Radiological (CBR) Warfare Protection Program which provides protective masks, suits, and meters to counter the effects of CBR warfare; (3) non-2C cog equipment used by the Naval Construction Force; (4) base operating technical support and analysis for all Navy claimants; and (5) administrative, public works shop, and specialized inspection equipment for the Naval Facilities Engineering Command and its field activities.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

			FY 1	1985	FY 1986	
		Budget	Approp-	Current	Budget	
	FY 1984	Request	riation	Est imate	Request	Change
Collateral Equipment	24,794	36,018	35,301	35,108	47,240	12,132
Engr Investigations	3,086	6,446	4,216	4,216	6,156	1,940
Radio Towers	156	320	220	220	324	104
Soil Conservation	362	461	434	434	469	35
and Natural Resources						
Planning Studies	2,372	3,655	3,471	3,471	4,013	542
Pollution Abatement	3,974	9,185	8,796	8,796	13,634	4,838
Federal Standards &	1,267	1,867	1,267	1,300	2,066	766
Specifications						2 01 (
Fleet Moorings	3,040	892	855	900	4,716	3,816
Ocean Facilities	768	1,319	1,290	1,290	2,091	801
Materials Technology	4,208	7,449	7,078	7,078	19,586	12,508
Total, Logistics						
Support Services	44,027	67,612	62,928	62,813	100,295	37,482

B. Reconciliation of Increases and Decreases

1. FY	1985 Current Estimates		\$ 62,813
2. Pr	ricing Adjustments		2,546
Α.	Stock Fund 1) Non-Fuel	(1,218) 1,218	
В.	Industrial Fund Rates	(-35)	
c.	Other Pricing Adjustments	(1,363)	
3. Fu	nctional Program Transfers		34,925
A.	Transfers In	(34,925)	
	1) Inter Appropiation Expense/Investment Criteria Revision - collateral equipment, ocean construction equipment, administration, Public Works shop, and specialized inspection equipment funding transferred from Other Procurement, Navy (OPN), pursuant to the proposed DOD iniative to eliminate the current \$3,000 per item investment threshold in favor of centralized management	34,925	

feasibility as the governing factor.

5.

Program).

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B. Reconciliation of Increases and Decreases (cont'd)

Pro	gram Increases		20,070
A.	Other Program Growth in FY 1986 1) Provides for protective measures at overseas locations to counter the	(20,070)	
	effects of Chemical/Biological/		
	Radiological (CBR) warfare.	8,705	
	2) Increased effort for the development		
	of facility mobilization readiness plans.	393	
	3) Increased effort for overhaul, upgrade, and cyclical inspection		
	of fleet moorings.	3,776	
	or riest moorings.	3,770	
	4) Provides for a reduction of the current average update cycle of federal/military standards and specifications down to the five-year DOD standard. Many of these documents are out of date with energy		
	and environmental goals, changing technology, and new weapons system		
	requirements.	710	
	1040220000000		
	5) Increased effort for the update of 14 engineering and design manuals, which will lower the current seven-year average cycle toward the five-year DOD update		
	standard.	1,848	
	6) Increased effort for corrective		
	Pollution Abatement projects to eliminate ground water contamination,		
	and provide for industrial waste		
	pretreatment and spill prevention.	4,527	
	•	*	
•	7) Increased effort in radio tower		
	inspections and soil conservation.	111	
Pro	ogram Decreases		-20,059
Α.	One-time FY85 Costs	· (-704)	
	1) Decrease due to completion of	` ''	
	Washington Navy Yard facilities		
	studies.	-186	
	•		
	2) Decrease due to completion of		
	periodic replacement of hull		
	plates on the Ocean Construction		
	Platform, SEACON (Ocean Facilities	-518	

-518

B. Reconciliation of Increases and Decreases (cont'd)

- B. Other Program Decreases in FY 1986 (-19, 355)
 - l) Decreased procurement of collateral equipment associated with initial outfitting of military construction projects. -18,021
 - 2) Decreased effort for software development and training of public works department employees related to the Base Engineering Support Technical (BEST) management information system.
 - 3) Decreased effort for base operations technical support and analysis provided to Navy claimants.
 - 4) Reduced procurement of odd-cog combat support items required for the Naval Construction Force. -360
- 6. FY 1986 OSD/OMB Budget Request

\$100,295

-806

III. Performance Criteria.

Collateral Equipment

The FY 1986 budget includes resources for initial outfitting of Congressionally authorized Military Construction, Navy (MCON) projects and the Government of Japan (GOJ) Relocation and Facilities Improvement Programs, with construction usable completion dates (UCD's) as follows:

Overseas: June 1986 CONUS: June 1986

In addition, the budget includes resources for the replacement and augmentation of furniture, furnishings, and equipment required for unaccompanied personnel facilities at activities under the command of the Chief of Naval Material (CNM).

	FY 1984	FY 1985	FY 1986
Initial Outfitting-MCON	\$18,943	\$32,028	\$44,299
Initial Outfitting-GOJ	3,663	3,050	2,911
CNM Augmentation Program	2,188	30	30
TOTAL Dollars (\$000)	\$24,794	\$35,108	\$47,240

III. Performance Criteria (cont'd).

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Engineering Investigations

The Engineering Investigations (E.I.) Program provides immediate access to the private sector and laboratories via contract and is a key element in the Naval Facilities Engineering Command's ability to quickly mobilize the skills, talents, and knowledge required to resolve facilities problems in four important areas: seismic, engineering design criteria, long-term ongoing projects, and unpredictable critical requirements from more than 700 Naval activities.

	FY 1984	FY 1985	FY 1986
Dollars (\$000)	\$ 3,086	\$ 4,216	\$ 6,156
No.	56	55	69

Inspection of Radio Towers

Radio tower inspections are performed by professional contractual personnel and provide early detection of potential problem areas, prevent possible structural tower failures, identify maintenance deficiencies and save extensive rehabilitation costs.

The present scope includes examination of individual elements, rate of deterioration, effect of damage, necessity for repair, tower verticality and rod alignment. Additionally, the following requirements are included in all contracts:

- a. Inspect all counterweight subsystems
- b. Inspect all top hat subsystems
- c. Inspect all feed line subsystems
- d. Inspect all cables in running rigging subsystems
- e. Inspect a random sampling of bolts for corrosion

The frequency of radio tower inspections vary due to several reasons. Namely, certain activities inspect their towers on a two year frequency and others on a four year frequency. Therefore, in FY 85 there is a preponderance of 1200-1500 foot towers which are fewer in number while in FY 86 there is a preponderance of 100-300 foot towers spread throughout the Pacific.

	FY 1984	FY 1985	FY 1986
Dollars (\$000)	\$ 156	\$220	\$324
Towers Inspected	79	59	123

Soil Conservation and Natural Resources

This program consists of projects and studies for soil conservation, grounds maintenance, and natural resources management that vary in scope from individual installations surveys of \$4K to Navy-wide project of \$50K.

	FY 1984	FY 1985	FY 1986
Dollars (\$000)	\$ 362	\$ 434	\$ 469
Numbers of Projects	30	25	34

III. Performance Criteria (cont'd).

Planning Studies

This program provides for the support of computerized planning systems; Architectural and Engineering (A&E) contractual mapping and planning studies; and facility planning requirements at Naval Base complexes. The chart below indicates funding levels required for each aspect of the program.

	FY 1984	FY 1985	FY 1986
	No. \$	No. \$	No. \$
A&E Planning Studies	14 1,694	22 2,827	20 2,913
A&E Encroachment Studies	2 47	4 415	3 400
A&E Facility Planning Studies	N/A 631	1 29	
A&E Mobilization Planning			
Studies		4200	14 700
TOTAL Dollars (\$000)	16 \$2,372	31 \$3,47 1	37 \$4,013

Funds are used to provide intermediate products as well as final products. For instance, A&E Planning Studies buy activity and complex master plans. Noise studies which are used in writing Air Installation Compatible Use Zone Chapters (AICUS) for master plans are paid for from these funds. Studies vary significantly in scope and the length of time required for accomplishment. For instance, the POL Study for DOD activities in Japan has taken over 4 years to complete and has been accomplished using funds from 3 fiscal years with a total cost of \$646,453. Traffic studies cost only \$2,000 to \$3,000 each.

Pollution Abatement

Projects are developed based upon the need to correct deficiencies to meet standards established under various public laws. The following schedule shows the funding plan by type of operation:

	FY 1984	FY 1985	FY 1986
Air	\$ 722	\$1,709	\$2,722
Water	1,402	3,679	5,554
Noise	353	303	430
Solid Waste	1,214	2,755	4,355
Pesticides	283	350	573
TOTAL Dollars (\$000)	\$3,974	\$8,796	\$13.634

III. Performance Criteria (cont'd).

Federal Military Standards and Specifications

This workload is developed from procurement contract requirements, and from various specifications and standards that require review and/or revision. The number of documents to be developed or revised in FY 1985 as compared to FY 1983 or FY 1984 includes a complex specification for pumping assemblies, which involves a time consuming review process. Also, a specification for Acetelyne Generators is scheduled in FY 1985 which again is more complex in scope than routine revisions and/or developments for such things as Motorized Rollers or Rotor Sweepers.

	FY 1984		FY 1985		FY 1986	
	No.	\$(000)	No.	\$(000)	No.	\$(000)
Develop/Revise standardization documents (Number of Documents)	253	630	230	498	385	775
Technical review of standard- ization documents prepared by others (Number of Documents)	1,523	588	1,523	723	2,000	1,160
Data Management for acquisi- tion contracts (Number of Activities Served)	4	30	23	48	23	80
Number of centrally managed federal supply classes	16	19	16	31	16	51
Total Dollars (\$000)		\$1,267	:	1,300		\$2,066

Fleet Moorings

The installation, relocation, removal, maintenance and repair of all fleet moorings for the Navy is financed by this line item. Funds are needed for existing mooring upgrade where detailed inspections show inadequate holding capacity for required ship loadings, as well as, annual maintenance, repair and inspection.

	FY	1984	FY	<u> 1985</u>		FY 1986	
	No.	\$(000)	No.	\$(00	00)	No.	\$(000)
Overhauls	61	\$2,523	6	\$:	514	24	\$2,575
Upgrades (new chain, cathodic protection, fiberglass)	-	-	-		_	17	1,925
Cyclical Inspection	300	340	100	1	136	114	216
Installation of Moorings	1	177	4	:	250	-	-
TOTAL dollars (\$000)		\$3,040		\$ 9	900		\$4,716

III. Performance Criteria (cont'd).

Ocean Facilities

This program provides for overhaul, maintenance, and repair of the ocean construction equipment which provides the Naval Construction Force with the capability to respond to and fulfill both exigent and planned fleet needs for construction, inspection, maintenance and repair of high value ocean and underwater facilities.

	FY 1984 (\$000)	FY 1985 (\$000)	FY 1986 (\$000)
Maintenance and overhaul of the Ocean Construction Equipment Inventory	\$ 551	\$1,169	\$ 587
Replacement of facilities components	73	35	74
Facilities support and main- tenance	118	68	124
New equipment	26	18	1306
TOTAL dollars (\$000)	\$ 768	\$1,290	\$2,091

Materials Technology

Includes: Base Engineering Support, Technical (BEST) which provides for contract costs of software maintenance, installation, and training of public works department employees to improve workload scheduling, personnel utilization and cost estimating for all Navy facilities; Chemical, Biological, Radiological (CBR) warfare program which is part of the initiative by the Navy to equip Naval Construction Force (NCF) personnel with protective clothing, detectors, decontamination equipment and protective structures to counter the effects of chemical warfare; Non-2c cog equipment for the Naval Construction Force; Defense relocation at the Washington Navy Yard; Base operating technical support and analysis for all Navy claimants; administrative equipment, Public works shops equiment and specialized inspection equipment for the Naval Facilities Engineering Command and its field activities.

	FY 1984 (\$000)	FY 1985 (\$000)	FY 1986 (\$000)
BEST			
Software Development	\$ 644	\$ -	\$ -
Software Maintenance & Installation	-	629	165
Training	536	805	525
(Subtotal BEST)	(1,180)	(1,434)	(690)

III. Performance Criteria (cont'd).

Materials Technology (cont'd)

	FY 1984 (\$000)	FY 1985 (\$000)	FY 1986 (\$000)
CBR			
Protective masks	-	2,770	2,048
Protective clothing (overgarments, gloves, hoods, etc.)	1,571	1,160	469
Decontamination materials and equipment	-	200	300
Detectors, alarms, training aids, etc.	-	. 44	1,000
Protective structures	-	-	9,241
(Subtotal CBR)	(1,571)	(4,174)	(13,058)
Naval Construction Force Equipment	-	779	452
BOS Tech Support and Analysis	287	513	367
Defense Relocation	-	178	-
Energy Conservation Awards	1,170	-	.
Administrative Equipment	-	-	4,750
Public Works Shop Equipment	-	-	181
Specialized inspection equipment	-	-	88
TOTAL dollars (\$000)	\$4,208	\$7,078	\$19,586

IV. Personnel Summary

No personnel associated with this activity group.

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Maintenance of Real Property

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Naval Facilities Engineering Command)

Description of Operations Financed.

Maintenance of Real Property supports repair of and minor construction additions to naval facilities which are critical to preservation of fleet support activities. Funding in this activity group reflects Navy efforts to reduce the backlog of maintenance and repair at naval facilities in accordance with the Congressional direction to contain the backlog at \$536M by the end of FY 1988. The subactivities included under the Real Property Maintenance group are described below:

A. Maintenance/Repair

- 1. Facilities Maintenance finances routinely scheduled maintenance and emergency repairs for NAVFAC field activities.
- 2. Major Repair finances more substantial maintenance projects over \$75K which are required to bring existing facilities into adequate condition to permit activities under the cognizance of the Chief of Naval Material to fulfill their assigned mission. Also included is the cost of the administration and contract execution of the entire Navy/Marine Corps Operations and Maintenance Repair Projects program by the Engineering Field Divisions; and the cost of projects specifically designed to correct facility deficiencies relating to the Navy's Occupational Safety and Health Program.
- B. Minor Construction finances projects under \$200K for alterations to facilities, extensions of utility systems, additions to existing facilities, replacement of damaged or deteriorated facilities. In addition, the installation of equipment which is made part of a facility to permit activities under the cognizance of the Chief of Naval Material to accomplish their assigned mission is also financed in this sub-activity group. Also funds minor construction relating to the Navy's Occupational Safety and Health Program and routine minor construction projects for NAVFAC field activities.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change	
Facilities Maintenance	17,888	23,816	23,150	21,990	22,160	170	
Major Repair	68,134	94,114	92,949	92,458	77,033	-15,425	
Minor Construction	7,776	13,531	13,263	13,263	10,791	-2,472	
Total, Maintenance of							
Real Property	93,798	131,461	129,362	127,711	109,984	-17,727	

Activity Group: Maintenance of Real Property (cont'd)

B. Reconciliation of Increases and Decreases.

1.	FY	1985	Current Estimate		\$127,711
2.	Pri	cing	Adjustments		2,953
	A.		ilian Personnel Compensation (Direct) U.S Direct Hire Pay Adjustment Other Direct Pricing Adjustments	(-899) -1,369 470	
	В.		ck Fund Non-Fuel	(-41) -41	
	C.	Indi	ustrial Fund Rates	(716)	
	D.	FN	Indirect	(117)	
	E.	Oth	er Pricing Adjustments	(3,060)	
3.	Pro	gram	Decreases		-20,680
	A.	One:	Time FY 1985 Costs	(-15,000)	
		1)	Major FY 1985 BEQ/BOQ maintenance upgrade program at activities under Chief of Naval Material (CNM)		
			cognizance	-15,000	
	В.	Oth	er Program Decreases in FY 1986	(-5,680)	
		1)	Reduction in contract major repair projects at activities under CNM cognizance only. (Projects at other naval activities are funded in other Navy claimant		
			budgets).	-1,725	
		2)	———————————————————————————————————————		
		•	program.	-1,951	
		3)	Reduction in Navy OSHA program effort in both maintenance and	-,	
			minor construction areas.	-2,004	

\$109,984

III.	Performance Criteria and Evaluation	FY 1984	FY 1985	FY 1986
	Maintenance of Real Property			
	Backlog, Maint/Reapir (\$000)	29,4 35	30,923	32,411
	Total Buildings (KSF)	11,404	11,404	11,404

4. FY 1986 President's Budget Request

Activity Group: Maintenance of Real Property (cont'd)

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military	<u>66</u>	<u>61</u>	<u>61</u>
	Officer Enlisted	13 53	10 51	10 51
В.	Civilian	1,471	1,446	1,522
	USDH FNIH	1,328 143	1,309 137	1,385 137

Department of the Navy Operation & Maintenance, Navy Exhibit OP-5

Activity Group: Other Base Operations

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material/(Naval Facilities Engineering Command)

I. Description of Operations Financed

The Other Base Operations Program involves support of fourteen functions (subactivities) related to operation of various field activities which are under Naval Facilities Engineering Command (NAVFAC) direction. There are also included a number of Navy-wide programs around the world. The subactivities included under the Other Base Operations program are described below:

A. Utility Operations. Included are costs of purchased utilities and also utility system generation/distribution costs where applicable at all field activities under NAVFAC direction. The Mobile Utility Support Equipment (MUSE) Overhaul Program finances the repair of portable steam plants and the Electrical Water Analysis Program supports quality testing of coal burned at naval facilities and also chemical analysis of industrial waste water produced as a result of daily operations.

B. Personnel Operations.

- 1. Bachelor Housing. Provides support for the operation of barracks, personnel housing, BOQs, BEQs and the purchase and maintenance of personnel support equipment related to the housing of personnel.
- 2. Other Personnel Support. Provides for food service facilities (mess halls, galleys), sales activites, laundry an dry cleaning facilities and initial procurement, repair, and replacement of furniture and furnishings.
- 3. Morale, Welfare and Recreation. Provides authorized appropriated fund support for shore based recreation activities, special services, personnel support equipment, libraries, clubs and military and civilian general recreation and other membership associations.

C. Base Operations - Mission.

- 1. Retail Supply Operations. This function involves storage of critical Seabee support material inventories prior to issuance worldwide, as well as procurement and other activities common to organic supply department.
- 2. Maintenance of Installation Equipment. Included in this subactivity group is maintenance of major plant equipment at Construction Battalion Centers. Overhaul of NAVFAC-owned service craft such as working tugs employed at coastal facilities is also funded here.
- 3. Other Base Services. The costs budgeted here are for base transportation and associated vehicle/craft operation and routine maintenance. Also included is the centrally managed program for Civil Engineering Equipment Overhaul which covers periodic rehabilitation of heavy engineering equipment used worldwide. Operation of Family Service Centers at major NAVFAC field activities is also covered here.

- D. Base Operations Ownership.
- 1. Engineering Support. This area includes public works administration, custodial services, garbage collection, facility inspection, and firefighting services performed at NAVFAC activities.
- 2. Administration. Funding covers costs of financial management operations, as well as personnel and training offices, at Construction Battalion Centers and the Naval Support Facility.
- 3. Automated Data Processing. This subactivity group is composed of the management support costs of in-house computer programming, as well as equipment rental and other contractual ADP purchases.
- 4. Audiovisual Services. Provides supplies and services required for audiovisual support.
- E. Base Communications. This represents the cost incurred by Headquarters, Naval Facilities Engineering Command, the six Engineering Field Divisions, and the three Construction Battalion Centers for telecommunications requirements. Specifically, these requirements include equipment rental; rental of leased communication lines to operate rapid communication and administrative telephones; and telephone services including toll charges.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

		FY 1985			FY 1986	
	FY' 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change
Utility Operations	7,907	11,191	10,766	9,592	8,593	-999
Personnel Operations	3,123	3,112	2,996	3,014	3,000	-14
Base Ops ~ Mission	29,680	35,441	32,048	32,610	39,789	7,179
Base Ops - Ownership	29,195	29,568	29,024	30,698	35,115	4,417
Base Communications	2,623	1,248	1,248	1,990	1,885	-105
Total, Other Base						
Operations	72,528	80,560	76,092	77,904	88,382	10,478

B. Reconciliation of Increase and Decreases.

1.	FY 19	85 Current Estimate		\$77,904
2.	Prici	ng Adjustments		633
	B. S 1 2 C. I	ivilian Personnel Compensation (Direct)) U.S. Direct Hire Pay Adjustment) Other Direct Pricing Adjustments tock Fund) Fuel) Non-Fuel ndustrial Fund Rates N Indirect	(-741) -1,131 390 (-323) -108 -215 (439) (90)	
	£. 0	ther Pricing Adjustments	(1,168)	
3.	Funct	ional Program Transfers		3,474
		ransfers In) Inter-Appropriation a. Expense/Investment Criteria Revision: ADP equipment funding transferred from Other Procurement Navy (OPN), pursuant to the proposed DOD initiative to eliminate current \$3,000 per item investment threshold in favor of centralized management feasibility as the governing factor.	(3,552) 3,552	
	в. т	ransfers Out	(-78)	
) Intra-Appropriation a. Civilian personnel administration from CBC Davisville to	-78	·
		CCPO Newport (NETC).	-76	
4.	Progr	am Increases		9,597
		ther Program Growth in FY 1986 Increase for contract maintenance on the second of thirteen Maritime Prepositioning Ships (MPS) under the Sealift Support Facilities Program. The increased funding also provides for spare parts and equipment maintenance to preserve the readiness of existing ship inventories. A major goal of the Sealift Program is to provide logistics support for the 4th Marine Air-Ground Task Force (4-MAGTF), whose purpose is to respond rapidly in emergency	3.045	

warfare contingencies.

3,065

- B. Reconciliation of Increase and Decreases (cont'd).
 - 2) Increased effort in Civil
 Engineering Equipment Overhaul
 program. This does not represent
 a major new initiative, but rather
 a restoration of the program to
 its 1984 level to reduce major
 backlog.

6,100

 Increased ADP efforts related to automation projects under development. 237

4) Increased administrative workload associated primarily with heavy investment for a major upgrade of Reserve Naval Construction Force (RNCF) equipment investment funded under O&M,NR and Guard and Reserve Equipment Defense appropriations.

167

 Increased effort at CBCs for base physical security to help thwart potential terrorist activity.

28

5. Program Decreases

-3,226

A. Other Program Decreases in FY 1986

(-3, 226)

Reduction in Mobile Utilities
 Support Equipment (MUSE) overhaul effort.

-1,288

 Reduced effort in supply operations area based on anticipated elimination of logistics support backlog by end of FY 1985.

-1,706

 Reduction due to planned efficiencies and economies in use of long distance communications.

-191

4) Decreased effort in personnel support areas due to lessened requirements after significant increases in FY 1984 and 1985.

-41

6. FY 1986 President's Budget Request

88,382

I. Performance Criteria and Evaluation

Decration \$\ \text{Poperations} \ (\$\ \text{\$000} \) 72,528 77,904 88,382		FY 1984	FY 1985	FY 1986
Total Energy Consumed (MBTUs) 755,728 742,379 712,189 Total Non-energy Consumed (K Gals) 289,685 299,685 299,685 299,685 299,685 299,685 299,6	Base Operations (\$000)	72,528	77,904	88,382
Total Energy Consumed (MBTUs) 755,728 742,379 712,189 Total Non-energy Consumed (K Gals) 289,685 299,685 299,685 299,685 299,685 299,685 299,6	Operation of Utilities (\$000)	7.907	9.592	8,593
Total Non-energy Consumed (K Gals) 289,685 299,685				
Base Communications (\$000) 2,623 1,990 1,885 Number of Instruments 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,663 11,665 1,056 1,0				
Number of Instruments Number of Mainlines Number of Mainlines Personnel Operations (\$000) Bachelor Housing (\$000) Bache				-
Number of Mainlines 7,939 7,939 7,939 1,056				
Daily Average Message Traffic				
Personnel Operations (\$000) 3,123 3,014 3,000			7,939	7,939
Bachelor Housing (\$000) 259 282 384 No. of Officer Quarters 86 86 86 No. of Enlisted Quarters 4,359 4,359 4,359 Other Personnel Support (\$000) 1,826 1,946 1,725 Population Served, Total 56,072 56,072 56,072 (Civilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations — Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 85 85 85 Issues (000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7	Daily Average Message Traffic	1,031	1,056	1,056
Bachelor Housing (\$000) 259 282 384 No. of Officer Quarters 86 86 86 No. of Enlisted Quarters 4,359 4,359 4,359 Other Personnel Support (\$000) 1,826 1,946 1,725 Population Served, Total 56,072 56,072 56,072 (Civilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations — Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 85 85 85 Issues (000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7	Personnel Operations (\$000)	3 123	3 014	3 000
No. of Officer Quarters	Rachelor Housing (1000)		•	•
No. of Enlisted Quarters 4,359 4,359 4,359 Other Personnel Support (\$000) 1,826 1,946 1,725 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations - Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 <td></td> <td></td> <td></td> <td></td>				
Other Personnel Support (\$000)				
Population Served, Total 56,072 56,072 (M11tary, E/S) 9,362 9,362 9,362 (C1vilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (M11tary, E/S) 9,362 9,362 9,362 (C1vilian, E/S) 46,710 46,71	NO. OF Enlisted Quarters	4,359	4,359	4,359
Population Served, Total 56,072 56,072 (M11tary, E/S) 9,362 9,362 9,362 (C1vilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (M11tary, E/S) 9,362 9,362 9,362 (C1vilian, E/S) 46,710 46,71	Other Personnel Support (\$000)	1.826	1.946	1.725
(Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations — Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 85 85 85 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4				
(Civilian, E/S) 46,710 46,710 46,710 Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations - Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bas				
Morale, Welfare & Rec. (\$000) 1,038 786 891 Population Served, Total 56,072 56,072 56,072 56,072 (Military, E/S) 9,362 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 46,710 Base Operations - Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 93 93 93 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 17,700 19,070 19,628 Administration (\$000) 17,700 19,070 19,628 Number of Bases, Total 4 4 4 <td></td> <td></td> <td></td> <td></td>				
Population Served, Total	•	_	-	•
(Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations – Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4	Morale, Welfare & Rec. (\$000)			
(Military, E/S) 9,362 9,362 9,362 (Civilian, E/S) 46,710 46,710 46,710 Base Operations – Mission (\$000) 29,680 32,610 39,761 Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4	Population Served, Total	56,072	56,072	56,072
Civilian, E/S 46,710 46,710 46,710	(Military, E/S)	9,362	9,362	9.362
Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Mumber of Bases, Total 4 4 4 (CONUS) 4 4 4	(Civilian, E/S)	46,710	46,710	46,710
Retail Supply Operations (\$000) 13,594 13,421 11,390 Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Mumber of Bases, Total 4 4 4 (CONUS) 4 4 4				
Line Items Carried (000) 93 93 93 Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 (Owned) 975 975 (Leased) 77 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 (CONUS) 4 4	Base Operations - Mission (\$000)			
Receipts (000) 85 85 85 Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Mumber of Bases, Total 4 4 4 (CONUS) 4 4 4		-		-
Issues (000) 363 365 365 Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 (Owned) 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS)				93
Maint. of Installed Equipment (\$000) 6,877 12,447 15,668 Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Mumber of Bases, Total 4 4 4 (CONUS) 4 4 4				85
Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total (Owned) 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4	Issues (000)	363	365	365
Other Base Services (\$000) 9,209 6,742 12,703 No. of Motor Vehicles, Total (Owned) 982 982 982 (Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4	Maint, of Installed Equipment (\$000)	6.877	12.447	15.668
No. of Motor Vehicles, Total (Owned) (Leased) 982 975 975 975 7 982 975 975 7 Qwnership Operations Other Engineering Support (\$000) Administration (\$000) Number of Bases, Total (CONUS) 29,195 17,700 19,070 11,495 11,628 4 4 4 30,698 19,070 11,495 11,628 15,487 4 4				
(Owned) 975 975 975 (Leased) 7 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4				
(Leased) 7 7 Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases Total 4 4 4 (CONUS) 4 4 4				
Ownership Operations (\$000) 29,195 30,698 35,143 Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4				
Other Engineering Support (\$000) 17,700 19,070 19,628 Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4	(Leaseu)	,	,	,
Administration (\$000) 11,495 11,628 15,487 Number of Bases, Total 4 4 4 (CONUS) 4 4 4				
Number of Bases, Total 4 4 4 (CONUS) 4 4 4		17,700		19,628
Number of Bases, Total 4 4 4 4 4 4		11,495	11,628	
(CONUS) 4 4 4		4	4	4
		4	4	4
		_	-	-

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military	<u>490</u>	<u>461</u>	472
	Officer Enlisted	65 425	72 389	68 404
В.	Civilian	1,367	1,355	1,384
	USDH FNIH	1,274 93	1,210 145	1,239 145

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Command and Administration
Budget Activity: 7-Central Supply and Maintenance

Chief of Naval Material (Headquarters, Naval Claimant:

Material Command

I. Description of Operations Financed.

The Chief of Naval Material (CNM) directs the development and acquisition of equipment and weapons systems for the Fleet. Also, CNM directs the logistics and maintenace support of weapon systems and equipment currently in the Fleet. Funds within this activity group include personnel compensation and training, printing and reproduction, travel, supplies, office equipment and furniture, word processing, renovation and relocation and other expenses to support the Chief of Naval Material and his staff.

Financial Summary (Dollars in Thousands). II.

A. Sub-activity Group Breakout.

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget Request	Change	
Command and Adminis- tration	19,217	19,518	19,490	20,017	20,040	+23	
Total, (Command and Adminis- tration)	19,217	19,518	19,490	20,017	20,040	+23	

Reconciliation of Increases and Decreases.

1.	FY	1985 Current Estimate		\$20,017
2.	Pri	cing Adjustments		-516
	A.	Civilian Personnel Compensation	(-576)	
		(1) U.S. Direct Hire	673 97	
		(2) Other Direct Pricing Adjustment	` 97	
	В.	Industrial Fund Rates	(-3)	
	•	(1) Navy Regional Data Command Rate Adjustment	-3	
	c.	Other Pricing Adjustments	(63)	

Activity Group: Command and Administration (cont'd)

4.	(1) Two Phys Speciali	Growth in FY ical Security sts with overs dination respo	63 ight	539
	bilities Security Naval Ma (2) Maintena	for the Physic Program in the terial Command nce contracts t bought inste	cal e for 176	
	(3) Furnitur	e - replacemen	t 84	
	(4) Supplies Printing increase	e required. and Materials and Reproduct to match basi l support requ	ion c	
5.	Program Decreases			
6.	FY 1986 President	's Budget Requ	est	\$20,040
III. Perform	nance Criteria.	FY 1984	FY 1985	FY 1986
	nate Commands ted Project	5 5	6 4	6
Acquisi	tion Funding .ng & Maintenance	\$30.8B \$ 9.5B	\$36.9B \$10.8B	\$37.2B \$11.5B

IV. Personnel Summary (End Strength).

		FY 1984	FY 1985	FY 1986
A.	Military Officer Enlisted	113 93 20	116 96 20	113 93 20
В.	<u>Civilian</u> USDH	$\frac{416}{416}$	<u>432</u> 432	434 434

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group:

Field Operations

Budget Activity:

7-Central Supply and Maintenance

Claimant:

Chief of Naval Material (Headquarters, Naval

Material Command)

I. Description of Operations Financed.

Resources within this Activity Group finance field activities which provide specialized services throughout the Naval Material Command and in the Fleet.

Navy Management Systems Support Office:

The mission of the Navy Management Systems Support Office (NAVMASSO) is to design, develop, implement, and provide life-cycle support for standard Fleet Nontactical Automated Information Systems afloat and ashore, and perform such other functions as directed by the Chief of Naval Material. NAVMASSO trains and assists fleet users in the operation of these information systems, and performs other tasks in the software analysis and functional areas as directed by higher authority. NAVMASSO functions as the single Central Design Agency (CDA) for fleet nontactical information systems.

Consolidated Civilian Personnel Office - Crystal City:

The mission of the Consolidated Civilian Personnel
Office - Crystal City (CCPO-CC) is to provide the full range
of civilian personnel services for Naval Material Command
components in the National Capital Region including position
classification, position management, staffing, performance
appraisal systems, employee relations and services, employee
assistance programs and employee development and training
programs. The CCPO-CC maintains liaison with the Systems
Command, Project Managers, Chief of Naval Operations, Office
of Personnel Management and other offices on civilian
personnel operating policies and procedures. Recruiting
efforts include nationwide campaigns to locate and hire
qualified personnel with skills currently in short supply in
the National Capital Region.

Automated Data Processing Selection Office (ADPSO):

ADPSO is responsible for evaluating and selecting for approval by the senior ADP Policy Official, ADP Resources (equipment, software, and contractual services) which are above specified thresholds; acting, when delegated, as the Department of the Navy Contracting Office for the procurement of the foregoing ADP resources; and performing such other functions as directed.

Miscellaneous Field Activities:

The mission of the Naval Material Command Industrial Resources Detachment (NMCIRD) is to serve as the Navy focal point for implementation of the Industrial Plant Equipment Program. It supports the Chief of Naval Material with regard to the commercial or industrial activities and the manufacturing technology programs.

The mission of the Office of Naval Technology (ONT) is to manage, direct, and coordinate the Department of the Navy Exploratory Development ("6.2") efforts in the "6.2" program to ensure the maintenance of an appropriate balance of focused and generic technology projects consistent with current and future Navy and Marine Corps requirements. ONT develops and implements the necessary measures to ensure effective transition of technology program outputs to higher development categories to improve Naval and Marine Corps capabilities. ONT coordinates with the Chief of Naval Reserve (CNR) to develop and implement measures to employ suitable outputs of the Naval Research Program in appropriate exploratory development projects. The Office of Naval Technology is functionally transferred to the Chief of Naval Research in FY 1986.

II. Financial Summary (Dollars in Thousands).

A. Sub-activity Group Breakout.

			FY 1985		FY1986	
	FY1984		Appro- priation	Current Est	Budget Request	Change
NAVMASSO	24,881	25,921	23,369	24,677	32,803	+8,126
CCPO-CC	9,626	8,843	8,643	8,739	8,945	+206
ADPSO	0	2,136	2,136	2,209	2,071	-138
Misc Field Op	s <u>1,430</u>	2,456	2,456	2,456	3,668	+1,212
Total (Field Activities)	35,937	39,356	36,604	38,081	47,487	+9,406

Activity	cy Group: Field Operations (cont'd)		Field Operations (cont'd)	
В.	Reco	oncil	iation of Increases and Decreases	
	1.	FY 1	985 Current Estimate	\$38,081
	2. Pricing Adjustments			156
		A.	Civilian Personnel (-615)	•
			Compensation (1) US Direct Hire Pay -615 Adjustment	
		В.	Industrial Fund Rates (-22)	
			(1) Navy Regional Data -22 Center (NARDAC) Rate Adjustment	
		c.	Other Pricing Adjustment (793)	
	3.	Func	tional Program Transfers	1,095
		A.	Transfers Out (-1,852) (1) Inter-Appropriation: -1,852 Office of Naval Technology trans- ferred to Chief of	
		В.	Naval Research Transfers In (2,947) (1) Inter-Appropriation: 2,947 Expense/Investment Criteria Revision - Amounts transferred from Other Procurement Navy pursuant to the proposed DOD initiative for elimination of \$3 thousand investment threshold and adoption of central management criteria as governing factor.	
	4. Program Increases		ram Increases	8,155
		A.	Purchased utilities (16) Increased facilities at NAVMASSO will increase utility costs.	
		В.	Purchased communications (26) Estimate for increased costs for telephone service.	
		c.	Rents (3) Increased rent of temporary facilities used to support SNAP installations aboard ship.	

- D. Supplies and Materials (106)
 In support of increased
 level of activity in the
 installation of nontactical computers aboard
 ship.
- E. Printing and Reproduction (56)
 To support the printing of
 technical guidance for
 shipboard personnel in the
 use and logistical support
 of the shipboard nontactical
 computers.
- shipboard nontactical computers and associated software. The support includes equipment and software installation, the initial loading of data into the computer (e.g. repair parts inventory), initial crew training in operation and maintenance of the system and trouble call response at the request of the Fleet user.
- G. Personnel costs reflecting (454)
 23 additional end strengths
 to support increasing work
 load as nontactical
 computer central design
 activity.
- H. Provides for the shipment of tools, manuals,
 and other equipment to
 ships to install nontactical computer systems.
- I. Industrial Fund Purchases (259)
 Navy Regional Data Automation Center, Washington's
 increasing range of ADP
 services require additional
 resources.
- 5. Program Decreases
- 6. FY 1986 President's Budget Request

\$47,487

III.	Performance Criteria.	FY 1984	FY 1985	FY 1986
	NAVMASSO:			
	SNAP I Hardware Replacements SNAP I Real-Time	58	4	, 0
	Installations	21	52	12
	SNAP II Installations	52	94	123
	NALCOMIS Installations TOTAL INSTALLATIONS:	$\frac{3}{134}$	$\frac{16}{166}$	$\frac{0}{135}$
	FLEET Customers supported	232	333	454
	FLEET Requested Assist Vis	sits 500	1100	1600
	SNAP Software Implementati	ions 375	750	1250
	NALCOMIS Software Implementions	nta- 0	36	113
	Software programs under development	32	30	29
	Software programs in life cycle support	25	40	58
	CCPO-CC	FY 1984	FY 1985	FY 1986
	Population served	12,000	12,000	12,000
	Systems Commands served Activities served	5 17	5 17	. 5 17
	Students trained	5,000	5,000	5,000
	Personnel actions	60,000	60,000	60,000
	Recruitment actions	3,400	3,900	4,000
	Number of classifications	9,700	9,900	10,000
	ADPSO	FY 1984	FY 1985	FY 1986
	Number of contracts Value of contracts (\$000,00	8 00) 1,080	10 1,300	10 1,300
IV.	Personnel Summary (End Street	ength) FY 1984	FY 1985	FY 1986
	A. Military	251	296	324
	Officer	$\frac{251}{31}$	47	41
	Enlisted	220	249	283
	B. <u>Civilian</u> USDH	<u>525</u> 525	<u>564</u> 564	<u>585</u> 585

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group:

Industrial Preparedness

Budget Activity:

7-Central Supply and Maintenance

Claimant:

Chief of Naval Material (Headquarters, Naval

Material Command)

I. The programs financed under this activity group include:

(1) Government-Owned Contractor-Operated (GOCO) Facilities.

(2) Industrial Readiness.

Government-Owned, Contractor-Operated Facilities (GOCO). Provides for lease administration of GOCO facilities and drydocks. Also provides for maintenance, protection and storage of government-owned special tooling/test equipment required for Navy programs in contractor facilities.

Industrial Readiness. Provides for development of formal plans with industry for emergency production of weapons systems. It involves planning with individual producers of critical items for a specific level of production sufficient to meet surge and mobilization requirements. It provides for the development of industrial preparedness measures to ensure utilization of improved techniques to shorten production lead time and reduce requirements for industrial manpower and critical materials. Also, the program funding provides for standby and maintenance of production lines as well as the packing, crating and handling of special tooling and special test equipment being moved to mobilization storage facilities.

II. Financial Summary (Dollars in Thousands).

A. Sub-activity Group Breakout.

			FY 1985		FY 1986	
		Budget	Appro-	Current	Budget	•
	FY 1984	Request	priation	Estimate	Request	Changes
Industrial Readiness Govt Owned-	2,157	2,444	2,444	2,444	2,283	-161
Contractor Operated	104	119	119	119	94	-25
Total, Industrial Preparedness	2,261	2,563	2,563	2,563	2,377	-186

Activity Group: <u>Industrial Preparedness (cont'd)</u>

1	В.	Reconciliation of Increases and Decreases.					
		1.	\$2,563				
		2.	Pri	cing Adjustments			98
			A. B.	Industrial Fund Rate Other Pricing Adjus		(14) (84)	
		3.	Fun	ctional Program Tran	sfers		
		4.	Pro	gram Increases			96
			A.	Other Program Incre (1) Support equipm Industrial Base assinformation will be into a data base.	ent on which essment	(96) 1 96	
		5. Program Decreases					-380
			A.	Other Program Decree (1) Reduced level of required in determing mobilization require necessary in employed civilian shipyards.	of effort nation of ements	(-380) -39	
				(2) Elimination of associated with speceduipment in supportance Aircraft Mobilization of the control of the con	cialized t of A-4 on. There lization	-341	
		6.	FY	1986 President's Bu	dget Request	•	\$2,377
III.	<u>Per</u>	for	manc	e Criteria	FY 1984	FY 1985	FY 1986
	GOCO Facilities: Special tooling mainte- nance operations 2,755 2,078 Facility/drydock leases 14 14 Autoclave maintenance 0 1 Nuclear drydock activation 0 0 FMC security projects 7 0				14 1 0	1,875 14 1 0	

Activity Group: Industrial Preparedness (cont'd)

Industrial Readiness:			
Industrial Preparedness			
Agreements	65	500	550
Surge Planning Projects	0	7	8
Industrial Preparedness			
Measures Developed	0	3	4
Stand-by lines for production			
lines for mobilization	3	4	3

IV. Personnel Summary.

None for this activity.

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: Naval Industrial Fund and Stock Fund Support

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (Headquarters, Naval

Material Command)

I. Description of Operations Financed.

This activity group includes: (1) funding to reimburse DOD Industrial Fund and Stock Fund costs not recovered through customer rates, (2) refunds from Industral Fund and Stock Fund where applicable.

DOD Industrial Funds and Stock Funds operate under a rate stabilization policy established by the Secretary of Defense. Financial resources requested in various appropriated fund customer programs reflect the impact of approved stabilized rates. Changes to established rates are disruptive to both customer program and Industrial Fund and Stock Fund operations. The Department executes its programs at established stabilized rates with additional reimbursement to or refunds from Industrial Fund and Stock Fund, as appropriate.

The Committees on Appropriations are familiar with the Department's price stabilization policy. The Committees are cognizant of the fact that the Department will continue to execute programs at published prices and provide refunds to customer accounts.

II. Financial Summary (Dollars in Thousands)

A. Sub-activity Group Breakout

		FY 1985			FY 1986	
	FY 1984	_	Appro- oriation	Current Estimate	Budget Request	Change
Stock Fund Reimb (Nonfuel)				-150,000		150,000
Stock Fund Reimb (Fuel)	-459,000		-352,700	-352,700		352,700
Navy Industrial Fund Rebates	-200,000			-84,000	-280,300	-193,300
Navy Industrial Fund Support	114,000	<u>-102,93</u>	1 _102,93	<u>37,500</u>		<u>-37,500</u>
Total, Stock Fund Industrial Fund	-545,000	-102,931	-455,631	-549,200	-280,300	268,900

Activity Group: Navy Industrial Fund and Navy Stock Fund Support (cont'1)

B. Reconciliation of Increases and Decreases

1. FY 1985 Current Estimate -\$549,200

2. Pricing Adjustments

268,900

A. Stock Fund (Nonfuel) (150,000)

B. Stock Fund (Fuel) (352,700)

C. Industrial Fund (-233,800)
1. Military Sealift Profits 25,000
2. Audit Related Items 59,000
3. FY 1985 Payraise -9,800

4. Annualization of .5%
difference in FY 1984
Payraise -27,700
5. Retained Earnings -280,300

- 3. Functional Program Transfers
- 4. Program Increases
- 5. Program Decreases
- 6. FY 1986 President's Budget Request

-\$280,300

III. Performance Criteria

None for this activity.

IV. Personnel Summary

None for this activity.

Department of the Navy Operations and Maintenance, Navy Exhibit OP-5

Activity Group:

Base Operations

Budget Activity:

7-Central Supply and Maintenance

Claimant:

Chief of Naval Material (Headquarters, Naval

Material Command)

I. Description Of Operations Financed.

Funds under this activity group finance Physical Security and Base Communications in support of the the Chief of Naval Material programs.

Physical Security commencing in FY 1986 provides funding for physical security measures, and for guard services. The initial effort within Headquarters, Chief of Naval Material is the creation of the data base from which physical security can be managed. There exists data compiled for communications security program which can be efficiently and relatively inexpensively adapted to physical security requirements. Funding under this activity group is to accomplish that adaptation.

Base Communications includes telecommunications functions which support the entire scope of operations. Base Communications provides services including leased lines, toll charges, WATS, common equipment, station equipment, local calls, interdepartmental dial service (IDS), telephone directories, and other related telephonic expenses at Headquarters, Chief of Naval Material.

II. Financial Summary (Dollars in Thousands).

A. Sub-Activity Group Breakout.

	FY 1984	Budget request	FY 1985 Appro- priation	Current Estimate	FY 1986 Budget request	Change
Physical Security Base Communications	433	386	386	442	154 448	+154 +6
Total, (Base Operations)	433	386	386	442	602	+160
B. Reconciliation of Increases and Decreases						
1. FY 1985	Current	Estimate	2			\$442
2. Pricing	Adjustm	ents				20
A. Oth	er Prici	ng Adjust	ments	(20)		

3. Functional Program Transfers

Activity Group: Base Operations (cont'd)

4. Program Increases

154

- A. Other Program Growth in FY 1986
 - 1. Establishment of data base to enable coordination of physical security program for the Naval Material Command.
- 5. Program Decreases

-14

A. Other Program Decreases

(-14)

(154)

6. FY 1986 President's Budget Request

\$602

III.	Performance Criteria.	FY 1984	FY 1985	FY 1986
	Management system established			1
	Number of telephone instruments	803	803	803
	Number of main lines	428	428	428
	Daily average message traffic	1600	1600	1600

IV. Personnel Summary.

There are no personnel in this activity group.

Department of the Mavy Operations & Maintenance, Mavy Exhibit OP-05

Activity Group: ASW Maintenance

Budget Activity: VII Central Supply & Maintenance
Claimant: Chief of Waval Material (PM-4)

I. Description of Operations Financed

The purpose of the ASW Maintenance program is to provide for the rework and maintenance of surface ship and submarine ASW weapon systems. Systems include ASW targets, underwater fire control systems, torpedoes, torpedo tubes, the surface ship Anti-Submarine Launched Rockets (ASROC) and launchers, Submarine Launched Rockets (SUBROC), and the enCAPsulated TORpedo (CAPTOR) mines. Also included are rework for components of the above equipments together with certain related items such as ASROC motor rework and container refurbishment. In order to fulfill the requirements and perform the mission, the program is subdivided into the following areas:

A. Submarine ASW Maintenance

Provides for the rework and maintenance of submarine ASW weapon systems. Systems include torpedoes, torpedo tubes, Submarine Launched Rockets (SUBROC), sensors and underwater fire control systems. Also included are rework for components of the above equipments and maintenance of software supporting the equipment.

B. Surface ASW Maintenance

Provides for the rework and maintenance of surface ship ASW underwater fire control systems, sensors, torpedoes, torpedo tubes, the enCAPsulated TORpedo (CAPTOR), Anti-Submarine Launched Rockets (ASROC) and launchers. Also included are rework for components of the above equipments and maintenance of software supporting the equipment.

C. Aviation ASW Maintenance

The Aviation Maintenance Program provides targets and pingers required for training exercise capability for all torpedoes, fired actively or passively, including Torpedo MK48, sonars, sonobuoys, and Magnetic Anomaly Detection (MAD) equipped aircraft. The program provides depot level repair for the overhaul and maintenance of target end items/sub-assemblies beyond the capability of the IMAs. Also provides services for fleet torpedo firings required for ASW fleet exercises, including maintenance and turnaround of range pinger systems. Includes depot maintenance of CV-ASW Module.

D. ASP Maintenance

The ASP Maintenance program provides depot and software maintenance for advanced signal processors. Enhanced Modular Signal Processor (EMSP) provides a Software Support Activity (SSA) capability for the AM/UYS-2, which encompasses a maintenance capability for programming methodologies, computer programming environments, computer programs, and associated documentation.

Activity Group: ASW Maintenance (Cont'd)

II. Financial Summary (Dollars in Thousands)

A. <u>Sub-Activity Breakout</u>

		FY 1985			FY 1986	
	FY 1984	Budget Request	Appro priation	Current Estimate	Budget Request	Change
Submarine ASW Maintenance	90,680	72,285	71,386	72,241	70,620	-1,621
Surface ASW Maintenance	51,146	57,526	56,100	58,111	60,964	+2,853
Aviation ASW Maintenance	17,115	16,409	16,661	18,860	24,513	+5,653
ASP Maintenance	-0-	1,538	1,560	1,560	4,145	+2,585
Total O&MN	158,941	147,758	145,707	150,772	160,242	+9,470

B. Reconcilation of Increases and Decreases

1. FY 1985 Current Estimate

\$150,772

2. Pricing Adjustments

3,749

B. Other Pricing Adjustments

(1,467)

3. Program Increases

15,596

A. Other Program Growth in FY 1986 Increase provides for an operational IMA at SOCAL for MK 27 and MK 30 targets and for associated Pinger support (\$2,608); provides for funding a backlog of 400 MK 46 Mod 4 and Mod 5 torpedoes awaiting six year cyclic Class B overhaul at NUWES, Keyport (\$3,136); supports an increase of 200 fleet exercise MK 46 torpedo firings; provides for support of additional CAPTOR units coming due for maintenance in FY 1986 (\$1,178); provides for increase in the number of Bearing Transmitter MK 17/Cable Reels MK 1 and Indicator Panels (IP) MK 21 refurbishment for the Underwater F/C Submarine program. The increase in IP refurbishment reflects the projected increase in Submarine Launched Mobile Mine (SLMM) installations for SSMs (\$1,663). Also reflects program growth of \$2,594 for 2 CV ASW modules due for cyclic overhaul and refurbishment in FY 1986 (\$2,591); reflects a new start of Enhanced Modular Signal Processor (EMSP) maintenance in FY 1986 and increased software maintenance for EMSP (\$2,517). Provides for an increase in MK 37 warshot loadouts. Reflects increased software maintenance for surface sensor programs, i.e. SQQ-15 and SQS 26/53A (1,903).

Activity Group: ASW Maintenance (Cont'd)

4. Program Decreases

~9,875

A. Other Program Decreases in FY 1986
Reflects no depot level
refurbishment in FY 1986
of Surface Underwater Fire
Control Systems MK 111/114 (-\$4,295).
Reflects a decrease of 17 SUBROC
components to be reworked
during FY 1986 (-\$1,624); decrease in
software support for AN/BQQ-5 and
other ASW sensor programs (not including
EMSP) (-1,549); and reduction of one ASROC
launcher overhaul and associated
ASROC maintenance, repair and test (-\$910).
Reflects a decrease in MK 48 depot
turnarounds of 108 torpedoes (\$-1,497).

5. FY 1986 Presidents' Budget Request

\$160,242

III. Performance Criteria

FY 1984 FY 1985

FY 1986

Where performance criteria is reflected as various, units may be comprised of items and workyears and/or items of varying mix which may not lend themselves to average pricing from one year to the next due to changes in the mix of the workload. Additional backup data can be provided upon request. In addition, numbers in parentheses denote workyears vice units.

A.	Sub	marine ASW Maintenance			495
_	1.	Torpedoes	390	408	
		a. MK37 Maintenance	Var	Var	Var
		b. MK48/Depot Maint	65,600	47,568	47,135
		D. Individual of the control of the	Var	Var	Var
	2	U/W Fire Control Maint			
	٤.	a. U/W FC Component Rework	3,978	5,224	7,012
		a. U/w ro component accord	Var	Var	Var
	3.	Subroc Maintenance	7,412	7,753	6,462
	э.	Subtoc Matricendince	Var	Var	Var
	4.	Sensors Maintenance	13.300	11,288	9,516
	4.	Selisors Definement	Var	Var	· Var
		Total Submarine Maint	90,680	72,241	70,620
В.	Sur	face ASW Maintenance			
υ.	1.		23,969	27,210	31,290
	••	a. MK46 Depot Maint	Var	Var	Var
		b. Torpedo Tube Rework	835	492	476
		and Test	20	10	11

Activity Group: ASW Maintenance (Cont'd)

III. Performance Criteria (Cont'd)	FY 1984	FY 1985	FY 1986
2. U/W FCS	3,487	4,156	-0-
	Var	Var	Var
3. ASROC launcher overhauls	15,102	16,757	16,249
	18	19	18
4. Sensors	4,084	5,667	7,814
	V ar	Var	Var
5. Captor	3,669	3,829	5,135
	(60.1)	(59.7)	(76.6)
Total Surface Maint	51,146	58,111	60,964
C. Aviation Maintenance			***
1. Target Support	12,569	15,064	17,148
	(180.3)	(231.8)	(251.1)
2. Pinger Support	2,446	3,691	4,666
	(32.6)	(46.9)	(56.4)
3. CV/ASW Module Total Aviation Maintenance	2,100	105	2,699
	Var	Var	Var
	17,115	18,860	24,513
D. ASP Maintenance	-0-	1,560	4,145
EMSP		Var	var

IV. Personnel Summary None

Department of the Navy Operations & Maintenance, Navy Exhibit OP-05

Activity Group: ASW Maintenance Support

Budget Activity: 7 Central Supply and Maintenance
Claimant: Chief of Naval Material (PM-4)

I. Description of Operations Financed

The purpose of the ASW Maintenance Support program is to provide for the direct maintenance support of surface ship and submarine ASW weapon systems. Systems include ASW targets, underwater fire control systems, torpedoes, torpedo tubes, the surface ship Anti-Submarine Launched Rockets (ASROC) and launchers, Submarine Launched Rockets (SUBROC), and the enCAPsulated TORpedo (CAPTOR) mines. Also included are rework and maintenance support for components of the above equipments together with certain related items such as ASROC motor rework and container refurbishment. In addition, this program provides in-service engineering support for each ASW weapon system for the purpose of ensuring combat system readiness. In order to fulfill the requirements and perform the mission, the program is subdivided into the following areas:

A. Submarine ASW Maintenance Support

Provides for direct maintenance support of submarine ASW weapon systems. Systems include torpedoes, torpedo tubes, Submarine Launched Rockets (SUBROC), Sensors and underwater fire control systems. In addition, this program provides in-service engineering support for each system for the purpose of ensuring combat system readiness.

B. Surface ASW Maintenance Support

Provides for direct maintenance support of surface ship ASW weapon systems. Systems include ASW underwater fire control systems, sensors, torpedoes, torpedo tubes, the enCAPsulated TORpedo (CAPTOR), Anti-Submarine Launched Rockets (ASROC) and launchers. In addition, this program provides in-service engineering support for each system for the purpose of ensuring combat system readiness.

C. Aviation ASW Maintenance Support

The mobile ASW Target Program provides training exercise capability for all torpedoes, fired actively or pasively, including Torpedo MK48, sonars, sonobuoys, and Hagnetic Anomaly Detection (HAD) equipped aircraft. The aviation maintenance program provides for direct maintenance support for fleet torpedo firings required for ASW fleet exercises. In addition it provides for maintenance support for CV-ASW Module.

D. ASP Maintenance Support

The ASP Maintenance Support Program provides maintenance support for advanced signal processors. Enhanced Modular Signal Processor (EMSP) maintenance support provides In-Service Engineering Agent (ISEA) capability for the AM/UYS-2 hardware. This support is comprised of centralized planning and programming of maintenance efforts at all levels for the life cycle of all AM/UYS-2 products.

Activity Group: ASW Maintenance Support (Cont'd)

II. Financial Summary (Dollars in Thousands)

A. Sub-Activity Breakout

			FY 198	35	FY 1986	
		Budget	Appro-	Current	Budget	
	PY 1984	Request	priation	Estimate	Request	Change
Submarine ASW Maintenance Support	29,360	38,079	36,672	33,086	33,873	+787
Surface ASW Maintenance Support	12,533	14,021	13,796	14,491	9,149	-5,342
Aviation Maintenance Support	4,506	4,286	5,775	4,285	4,994	+709
ASP Maintenance Support	-0-	500	500	500	5,198	+4,698
Total OGNW	46,399	56,886	56,743	52,362	53,214	+852
B. Reconciliation of Increase	es and	Decrease	<u>e</u>			

1.	FY 1985 Current Estimate		\$ 52,362
2.	Pricing Adjustments	/ 707\	-50
	A. Industrial Fund Rates	(-787)	
	B. Other Pricing Adjustments	(737)	

3. Program Increases A. Other Program Growth in FY 1986 Reflects increased effort in the Underwater Fire Control - Submarine program to correct long existing FCS MK 113 MOD 9 Realiability and Maintainability problems (\$2,045); increased funding in support of depot maintenance for AM/BQQ-5 B/C to support additional operational systems (\$1,143); increased maintenance support for 2 CV-ASW Modules requiring overhaul and refurbishment in FY 1986 (\$801); supports six Enhanced Modular Signal processors (EMSP) UYS-2s becoming operational in FY 1986. (\$4,676) Provides for additional ASROC

4. Program Decreases

engineering efforts.

A. Other Program Decreases in FY 1986
Reflects no in-service engineering
support in FY 1986 for Surface
Underwater Fire Control Systems (-\$3,394);
decreased efforts for the SUBROC
program incident to inventory
control, and in-service engineering (-\$708);

-7,763

8,665

Activity Group: ASW Maintenance Support (Cont'd)

and reduced engineering effort for ASW Sensors programs (-\$3661)

5. FY 1986 President's Budget Request

\$53,214

III. Performance Criteria

FY 1984 FY 1985

FY 1986

Where performance criteria is reflected as various, units may be comprised of items and workyears and/or items of varying mix which may not lend themselves to average pricing from one year to the next due to changes in the mix of the workload. Additional backup data can be provided upon request. In addition, numbers in parentheses denote workyears vice units.

	1.	Torpedo Maint Support			
		a. MK37 Maint Spt	251	250	201
			Var	Var	Var
		b. Torpedo Tube Rework	445	460	380
		and Test Spt	(6.5)	(7.0)	(5.5)
		c. Torpedo MK48 Engineering	15,208	16,239	14,843
			(175.2)	(150.8)	(132.8)
	2.	U/W FCS Maintenance Support			
		a. U/W FCS MK117	56	253	244
		Rework Spt	(.6)	(2.9)	(2.7)
		b. F/C Engineering	4,286	5,470	7787
			(60.6)	(56.7)	(77.1)
	3.	Subroc Maintenance and	2,019	2,266	1,655
		Engineering Support	Var	Var	Var
	4.	Sensor Maintenance	7,095	8,148	8,763
		Support	Var	Var	Var
		Total Submarine Maint Spt	29,360	33,086	33,873
В.	ASW	Surface Maintenance Support			
	1.	Torpedo Maintenance Support			
		a. MK46 Maintenance Support	2,720	4,053	3,688
		-	(25.6)	(40.0)	(34.8)
		b. Torpedo Tube Rework	174	217	218
		and Test Support	(22)	(12)	(16)
	2.	U/W FCS Maintenance Support			
		a. U/W FCS Component	137	143	-0-
		Rework Spt	Var	Var	
		b. Surface F/C Engineering	2,146	3,121	-0-
				(28.5)	(38.6)
	3.	ASROC Maintenance Support			
		a. ASROC Maintenance Spt	485	1,361	1,350
			Var	Var	Var
		b. ASROC Engineering	166	170	286

(2.0)

Activity Group: ASW Maintenance Support (Cont'd)

III. Performance Criteria	FY 1984	FY 1985	FY 1986
4. Captor Maintenance Support a. Refurb/Repair Maint Support	135 (2.3)	198 (3.2)	410 (6.5)
5. Sensors Maintenance Support	6,570 var	5,228 var	3,197 var
Total ASW Surface Maintenance Support	12,533	14,491	9,149
C. Aviation Maintenance Support			
1. Target Support	2,361 (33.8)	2,423 (36.7)	2,391 (34.1)
2. CV/ASW Module Support	2,145 var	1,862 var	2,603 var
Total Aviation Maintenance Support	4,506	4,285	4,994
D. ASP Maintenance Support	-	500 var	5,198 va r

IV. <u>Personnel Summary</u> None

Department of the Navy Operation and Maintenance, Navy Exhibit OP-5

Activity Group: ASW Support

Budget Activity: 7 - Central Supply and Maintenance

Claimant: Chief of Naval Material (PM4)

I. <u>Description of Operations Financed</u>

The purpose of the program is to provide technical support, periodic testing and correctional improvements throughout the life of ASW sensors and weapon systems in order to maintain ASW Surface and Submarine forces at a high level of effectiveness and readiness. This program also provides logistics support for the collection and processing of undersea acoustic data. In order to perform the stated mission, this program finances five sub-programs which are:

A. ASW Submarine Technical Support - This program provides the basic source of technical support for various complex sonar and ordnance systems on submarines. Principal types of effort included are: statistical analysis, investigations, testing, and engineering design of corrective fixes of items in the operational inventory for the purpose of extending the useful military life of such items within the current performance envelope; Installation and Checkout (I&C); Integrated Logistics Support (ILS) Management; Configuration Management (CM); Operation of House Models; Data review and update; a Training and Certification Program (TCP) and Follow on Test and Evaluation (FOT&E) programs for the Torpedo MK-48; various other maintenance engineering tasks for operational fleet systems; and the operation of test sites, development of test procedures and performance of standard tests within the shipyard and at sea after major events such as overhauls and major modifications or prior to ship deployment.

The program is comprised of four elements: (1) AN/BQQ-5 Technical Support; (2) HK-48 Torpedo Technical Support; (3) Other Submarine Technical Support. and (4) ASW Test Program.

B. ASW Surface Ship Technical Support - This program provides the basic source of technical support for various complex sonar and ordnance systems on surface ships. Principal types of effort included are: statistical analysis, investigations, testing, and engineering design of corrective fixes of items in the operational inventory for the purpose of extending the useful military life of such items within the current performance envelope; Installation and Checkout (I&C); Integrated Logistics Support (ILS) Management; Configuration Management (CM); Operation of House Models; Data review and update; Fleet introduction analysis and planning for CAPTOR; and various other maintenance engineering tasks for operational fleet systems.

The program is comprised of three elements: (1) CAPTOR Technical Support; (2) MK-46 Torpedo Technical Support and (3) Other Surface Technical Support.

- C. ASW Avionics Technical support -This program provides for reliability improvement for the CV-ASW Modules and life-cycle engineering and logistic support for the Integrated Carrier Acoustic Processor System(ICAPS). Principal types of effort included are: developing system configuration drawings; identifying training requirements; initiating installation planning, integration and testing; safety assessments; developing engineering change orders; and developing documentation.
- D. Airborne ASW Support This program is a comprehensive and integrated ASW program that consolidates under a single budget line item four distinct ASW programs: (1) Air ASW Readiness and Performance Assessment Program (AIREM), which assesses and improves the effectiveness of Air ASW systems by collecting and analyzing scientific and operational data to support quantitative analyses of the Air ASW platforms, systems and sensors; (2) Air ASW Fleet Support, which increases the reliability and maintainability of the Fleet in-service ASW Avionics Systems installed in the P-3, S-3, SH-2, and SH-3 aircraft; (3) Sonobuoy Support, which provides the operational Mavy with sonobuoys that conform to specified performance and reliability levels and provides on-going operational/logistic support as required; and (4) Advanced Signal Processor Support, which provides software maintenance and configuration control to the users of the AW/UYS-1.
- C. $\underline{\text{Undersea Surveillance}}$ This program provides support for SOSUS and SURTASS.

SOSUS provides for the collection and processing of undersea acoustic data. SOSUS consists of cable connected to shore sites and shore processing equipment. This program maintains existing SOSUS against cable breaks and equipment breakdowns; improves existing SOSUS system through backfits to shore electronics; and installs new shore facilities.

Maintenance of the existing systems is accomplished by three ships. These ships try to provide one ship continuously in each the Atlantic and the Pacific for cable guard and repair services. In addition, a cable transporter and a survey ship support the program. Also included is expendable cable repair material.

U.S. Havy maintenance of SOSUS shore electronic systems hardware is augmented by Western Electric Company Resident Engineer Support (one or two engineers per site) and configuration control support and Maval Electronic Systems Engineering Center maintenance of selected site hardware. Also included is the maintenance of shipboard machinery and electronics, overall ship maintenance during shippard periods, shore and cable inspection/repair and refurbishment of shore electronic hardware.

New deployments are achieved by an extensive oceanographic hydrographic and acoustic survey program followed by cable implantment and burish and array implantment.

SURTASS provides for collection and processing of undersea acoustic data. It employes a passive hydrophone array towed by a dedicated surface ship, designated T-AGOS, for data collection. A satellite relay is used to transmit acoustic data to a shore facility for processing and display.

Funds are required for operation and support of SURTASS production units. The production unit operations and support includes:

- (1) SURTASS contractor technicians to operate and maintain the SURTASS electronics aboard the T-AGOS ships;
- (2) Establishment and operation of on-shore logistics support. This includes contractor operated intermediate maintenance facilities and spare parts depots for unique SURTASS equipment in the Norfolk, VA and Pearl Harbor, HI areas:
 - (3) Computer Software Maintenance.

During the phased introduction of the first 12 T-AGOS/SURTASS units (i.e., one unit every 2.5 months) significant non-recurring start up costs are required in advance of production unit operations. These non-recurring costs are: (1) contractor technicians training required to begin 12 months prior to each unit becoming operational; (2) establishment of shore logistics support depots.

II. FINANCIAL SUMMARY (Dollars in Thousands)

A. Sub-Activity Group Breakout.

		FY 1985			FY 1986		
	FY 1984	Budget Request	Appro- priation	Current Estimate	Budget <u>Request</u>	Change	
ASW Submarine Technical							
Support	78,325	81,106	79,857	78,774	81,684	+2,910	
ASW Surface Ship Tech-							
nical Support	36,264	42,181	41,733	39,143	46,120	+6,977	
ASW Avionics Technical							
Support	698	538	528	784	1,445	+661	
Airborne ASW Support	9,138	10,249	9,922	9,949	5,206	-4,743	
Undersea Surveillance	130,637	139,189	135,010	146,664	164,385	+17,721	
TOTAL ASW SUPPORT	255.062	273.263	267.050	275.314	298.840	+23.526	

Activity	Group:	ASW	Support	(cont'd)
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B. Reconciliation of Increases and Decreases

1.	FY :	1985 Current Estimate		\$275,314
2.	Pri	cing Adjustments		-2,653
	A. B. C.	Stock Fund 1) Non-Fuel Industrial Fund Rates Other Pricing Adjustments	(-269) -269 (-7,925) (5,541)	
3.	Fun	ctional Program Transfers		23,945
	Α.	Transfers In 1) Intra-Appropriation Sonar Training Assess- ment and Grooms trans- ferred from LANTFLT BA1(900) and BA2(900).	(24,045) 1,800	
		2) Inter-Appropriation Tasks in support of the SOSUS annual sea/shore installation contract with American Tele- phone and Telegraph Technologies, Inc. (AT&TT) which were previously funded in OPW(19,784). Amounts transferred from Other Procurement, Navy pursuant to the proposed DoD initiative for elimination of \$3 thousand invest- ment threshold and adoption of central management criteria as a governing factor(2,461)	22,245	
	В.	Transfers Out 1) Intra-Appropriation PATAO support transferred to Naval Sea Systems Command.	(-100) -100	
4.	Prog	ram Increases		10,127
	A.	Other Program Growth in FY 1986	(10,127)	
	Asw	Submarine Technical Support	4,432	
		ovides for product improvements the submarine towed array; and		

Provides for product improvements to the submarine towed array; and support for the the new SUBmarine Advanced Combat System (SUBACS).

ASW Surface Ship Technical Support

1,431

Increasing levels of support for the new surface combat system, including the AN/SQS-53B, AN/SQR-19, ASWCS and for CAPTOR.

Undersea Surveillance

4,264

Initial surveys for SOSUS 6300 expansion(a special project) scheduled to start in FY 1986(2,000).

Increased system engineering support to maintain major SOSUS subsystems scheduled to transfer to operational status in FY 1986(700).

Increase in the number of SURTASS ship operating months to 75 as new ships become operational(1,564).

5. Program Decreases

-7,893

A. One-Time FY 1985 Costs

(-1,598)

Undersea Surveillance

-1,598

CVB site preparation/power upgrade and USMS NEPTUNE fleeting drum installation.

B. Other Program Decreases in FY 1986

.(-6,295)

Airborne ASW Support

-4,995

Reduced exercise support for the Air Effectiveness Measurement Program (AIREM); reduced support for Air ASW Sensors Systems; reduced quality assurance and reliability testing for production sonobuoys; and reduced life cycle support for ASP common software.

Undersea Surveillance

-1,300

Reduced effort for SOSUS hardware maintenance and configuration control support, cable refurbishment and Sonar Data Recorder refurbishment.

6. FY 1986 President's Budget Request

\$298,840

III		erformance Criteria) denotes units	FY 1984	FY 1985	FY 1986
A .		Submarine Technical oport			
	1.	AN/BQQ5 Sonar	11,226	10,918	14,757
,		(Work Years)	(135)	(136)	(180)
	2.	MK-48 Torpedo	17,930	19,558	20,421
		Support (TCPs)	(Ž)	(9)	(12)
		(Work Years)	(157)	(159)	(164)
	3.	Other Submarine	29,439	26,122	28,860
		Supp (Work Years)	(368)	(312)	(335)
	4.	ASW Test Program			
		Weapon System Ship			
		Trials (WSST) Standardized Test	9,990	11,381	9,850
		Program (work years) Sub Consolidated	(3)	(6)	(6)
		Operability Test			
		(COT)(Hulls)	(8)	(7)	(10)
		Weapon Systems		400	4001
		Accuracy Trials	(32)	(38)	(38)
		SHAREM (Exercises)	(6)	(6)	*
		Post-Op Analysis Critique & Exer			
		Review (work years)	(9)	(6)	*
		STAGS (exercises)	(60)	(63)	(123)
		FORACS	6,660	7,724	7,796
		(# of Test Ops)	(91)	(83)	(91)
		(Work Years)	(62)	(72)	(74)
		Acoustic trials	3,080	3,071	*
		(# of Trials)	(66)	(87)	*
		TAL ASW Submarine			
	Te	echnical Support	78,325	78,774	81,684

^{*} Moved to ASW Surface Ship Technical Support beginning in FY 1986

			FY 1984	FY 1985	FY 1986
В.		Surface Ship hnical Support			
	1.	CAPTOR Support	7,057	5,668	8,070
		(Work Years)	(108)	(83)	(113)
	2.	MK-46 Torpedo	7,091	4,778	5,391
		(Work Years)	(69)	(45)	(51)
	3.	Other Surface	22,116	28,697	28,484
		Support (Work Years)	(272)	(339)	(339)
	4.	ASW Test Program			
		SHAREM	*	*	1,449
		(Exercises)			(6)
		Post-op Analysis			
		Critique & Exer		_	
		Review	*	*	364
		(Work Years)			(5)
		Acoustic Trials	*	*	2,362
		(# of Trials)			(76)
	TOT	TAL ASW Surface Ship			
	Te	echnical Support	36,264	39,143	46,120
* 1	loved	from ASW Submarine Techr	ical Suppor	rt beginning	in FY 1986.
C.	ASW	Avionics Support	698	784	1,445
		(Work Years)	(8)	(9)	(17)
D.	Airt	oorne ASW Support			
	1.	Air ASW Readiness &			
		Performance Assess.	1,137	1,589	582
		(Work Years)	(10)	(15)	(6)
	2.	Air ASW Fleet Support	1,959	2,341	1,359
		(Work Years)	(29)	(35)	(21)
	3.	Sonobuoy Support	2,806	2,311	1,198
		(Work Years)	(14)	(14)	(4)
	4.	Advanced Signal	3,236	3,708	2,067
		Processor (Work Years)	(27)	(33)	(20)
	ጥርሳ	TAL Airborne ASW			
		pport	9,138	9,949	5,206

		FY 1984	FY 1985	FY 1986
Undersea Surveillance				
1.	sosus			
	Cable & Survey			
	Ship Support	61,821	49,039	37,498
	(Ship Days)	(1980)	(1917)	(1825)
	Maintenance/Install/ Restor/Material/ Fleet Support/			
	Travel & Training	53,485	69,028	96,589
2.	SURTASS	15.331	28,597	30,298
	(Operating Months)	(10)	(43)	(75)
Tot	al Undersea			
Su	rveillance	130,637	146,664	164,385
	1. 2.	1. SOSUS Cable & Survey Ship Support (Ship Days) Maintenance/Install/ Restor/Material/ Fleet Support/ Travel & Training 2. SURTASS	Undersea Surveillance 1. SOSUS Cable & Survey Ship Support 61,821 (Ship Days) (1980) Maintenance/Install/ Restor/Material/ Fleet Support/ Travel & Training 53,485 2. SURTASS 15,331 (Operating Months) (10) Total Undersea	Undersea Surveillance 1. SOSUS Cable & Survey Ship Support 61,821 49,039 (Ship Days) (1980) (1917) Maintenance/Install/ Restor/Material/ Fleet Support/ Travel & Training 53,485 69,028 2. SURTASS 15,331 28,597 (Operating Months) (10) (43) Total Undersea

IV. Personnel Summary(End Strength)

	FY 1984	FY 1985	FY 1986
A. Military	22	21	23
Officer	19	18	20
Enlisted	3	3	3